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## RESEARCH MEMORANDUM

CHORDWISE PRESSURES AND SECTION FORCE AND MOMENT  
COEFFICIENTS AT HIGH SUBSONIC SPEEDS NEAR  
MIDSPAN OF A TAPERED  $35^\circ$  SWEPTBACK  
WING WITH A FLAP-TYPE CONTROL  
AND AN ATTACHED TAB

By Alexander D. Hammond and Barbara M. Keffer

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NATIONAL ADVISORY COMMITTEE  
FOR AERONAUTICS

WASHINGTON  
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## RESEARCH MEMORANDUM

CHORDWISE PRESSURES AND SECTION FORCE AND MOMENT  
COEFFICIENTS AT HIGH SUBSONIC SPEEDS NEAR  
MIDSPAN OF A TAPERED  $35^\circ$  SWEEPBACK  
WING WITH A FLAP-TYPE CONTROL  
AND AN ATTACHED TAB

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## SUMMARY

An investigation has been made in the Langley high-speed 7- by 10-foot tunnel through a Mach number range from 0.60 to 0.93 in order to determine the effects on the chordwise pressures and on the section force and moment coefficients near midspan of deflecting a flap-type control with an attached tab on a swept wing. The semispan  $35^\circ$  swept-back wing had an NACA 65A006 airfoil section, an aspect ratio of 4, and a taper ratio of 0.6. The wing was equipped with a 20-percent-chord flap-type control extending from 25 to 75 percent of the semispan with a 6-percent-chord full flap-span attached tab.

The results of the investigation are presented in the form of tabulated pressure coefficients and curves of the variation of the section force and moment coefficients with flap deflection for various tab deflections, angles of attack, and Mach numbers.

## INTRODUCTION

The use of flap-type controls on high-speed aircraft has presented the problem of large control forces normally associated with this type of control. The use of an attached tab to reduce the control force has been the subject of investigations at both low and high speeds (for example, ref. 1).

There is, however, very little information concerning the aerodynamic loads on swept wings equipped with flap-type controls with an

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attached tab. In order to obtain information on such loads and on the flow in the vicinity of flap-type controls with attached tabs on swept wings, chordwise-pressure measurements have been made in the Langley high-speed 7- by 10-foot tunnel at one spanwise location on the upper and lower surfaces of a  $35^\circ$  sweptback wing. The semispan wing was equipped with a 20-percent-chord sealed flap-type control extending from 25 to 75 percent semispan with a 6-percent-chord full flap-span attached tab. Pressure distributions over the wing and flap of this investigation without the attached tab have been reported in reference 2.

### COEFFICIENTS AND SYMBOLS

- $c_{n_w}$  section normal-force coefficient of main airfoil with flap and tab,  

$$\frac{1}{c} \int_0^{0.80c} (S_u - S_l) dx + \frac{\cos \delta_f}{c} \int_{0.80c}^{1.00c} (S_u - S_l) dx +$$

$$\frac{\cos(\delta_f + \delta_t)}{c} \int_{1.00c}^{1.06c} (S_u - S_l) dx$$
- $c_{n_f}$  section normal-force coefficient of flap with tab,  

$$\frac{1}{0.20c} \int_{0.80c}^{1.00c} (S_u - S_l) dx + \frac{\cos \delta_t}{0.20c} \int_{1.00c}^{1.06c} (S_u - S_l) dx$$
- $c_{n_t}$  section normal-force coefficient of tab,  

$$\frac{1}{0.06c} \int_{1.00c}^{1.06c} (S_u - S_l) dx$$
- $c_{m_c/4}$  section pitching-moment coefficient of main airfoil with flap and tab measured about quarter-chord point,  

$$\frac{1}{c^2} \int_0^{0.80c} (S_u - S_l)(0.25c - x) dx +$$

$$\frac{1}{c^2} \int_{0.80c}^{1.00c} (S_u - S_l)(0.80c - 0.55c \cos \delta_f - x) dx +$$

$$\frac{1}{c^2} \int_{1.00c}^{1.06c} (S_u - S_l) [1.00c - 0.55c \cos(\delta_f + \delta_t) -$$

$$0.20c \cos \delta_t - x] dx$$

- $c_{h_f}$  section hinge-moment coefficient of flap with tab about flap hinge line (0.80c),  
$$\frac{1}{0.04c^2} \int_{0.80c}^{1.00c} (S_u - S_l) (0.80c - x) dx +$$
$$\frac{1}{0.04c^2} \int_{1.00c}^{1.06c} (S_u - S_l) (1.00c - 0.20c \cos \delta_t - x) dx$$
- $c_{h_t}$  section hinge-moment coefficient of tab about tab hinge line (1.00c),  $\frac{1}{0.0036c^2} \int_{1.00c}^{1.06c} (S_u - S_l) (1.00c - x) dx$
- $S$  pressure coefficient,  $\frac{H_o - p}{q}$
- $b$  wing span, ft
- $c$  local chord, ft
- $H_o$  total free-stream pressure, lb/sq ft
- $M$  Mach number
- $p$  local static pressure, lb/sq ft
- $q$  free-stream dynamic pressure, lb/sq ft
- $x$  chordwise coordinate measured in planes parallel to plane of symmetry for zero  $\delta_f$  and  $\delta_t$ , ft; positive direction is toward trailing edge
- $y$  spanwise distance from plane of symmetry, ft
- $z$  vertical coordinate measured in planes perpendicular to wing chord for zero  $\delta_f$  and  $\delta_t$ , ft
- $\alpha$  angle of attack, deg
- $\delta$  control deflection, deg
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## Subscripts:

u            wing upper surface  
 l            wing lower surface  
 f            flap  
 t            tab  
 w            wing

## Section parameters:

$$(c_{n_w})_{\delta_t} = \left( \frac{\partial c_{n_w}}{\partial \delta_t} \right)_{\delta_f}$$

$$(c_{n_f})_{\delta_t} = \left( \frac{\partial c_{n_f}}{\partial \delta_t} \right)_{\delta_f}$$

$$(c_{n_t})_{\delta_t} = \left( \frac{\partial c_{n_t}}{\partial \delta_t} \right)_{\delta_f}$$

$$(c_{m_c/4})_{\delta_t} = \left( \frac{\partial c_{m_c/4}}{\partial \delta_t} \right)_{\delta_f}$$

$$(c_{h_f})_{\delta_t} = \left( \frac{\partial c_{h_f}}{\partial \delta_t} \right)_{\delta_f}$$

$$(c_{h_t})_{\delta_t} = \left( \frac{\partial c_{h_t}}{\partial \delta_t} \right)_{\delta_f}$$

$$(c_{n_w})_{\delta_t} = \left( \frac{\partial c_{n_w}}{\partial \delta_f} \right)_{\delta_t}$$

$$(c_{n_t})_{\delta_f} = \left( \frac{\partial c_{n_t}}{\partial \delta_f} \right)_{\delta_t}$$

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$$(c_{n_f})_{\delta_f} = \left( \frac{\partial c_{n_f}}{\partial \delta_f} \right)_{\delta_t}$$

$$(c_{m_c/4})_{\delta_f} = \left( \frac{\partial c_{m_c/4}}{\partial \delta_f} \right)_{\delta_t}$$

$$(c_{h_t})_{\delta_f} = \left( \frac{\partial c_{h_t}}{\partial \delta_f} \right)_{\delta_t}$$

$$(c_{h_f})_{\delta_f} = \left( \frac{\partial c_{h_f}}{\partial \delta_f} \right)_{\delta_t}$$

The subscripts  $\delta_f$  and  $\delta_t$  outside the parentheses indicate that the factor was held constant. All slopes were measured at  $0^\circ$  angle of attack and near  $0^\circ$  flap or tab deflection.

#### APPARATUS AND MODEL

The model used in this investigation was a semispan sweptback wing mounted vertically in the Langley high-speed 7- by 10-foot tunnel with the ceiling serving as a reflection plane.

The geometric characteristics and dimensions of the wing are shown in figure 1. The wing was made of steel and had  $35^\circ$  sweepback of the quarter-chord line, an aspect ratio of 4, a taper ratio of 0.6, and had no twist or dihedral. The wing had NACA 65A006 airfoil sections parallel to the free stream.

The pressure orifices were located on the upper and lower surfaces at the 46-percent-semispan station. The chordwise and vertical positions of the orifices are listed in table 1 for zero flap and tab deflection. There is a difference in the chordwise positions of the orifices between the positive and negative flap deflections resulting from the testing technique used in obtaining the data as noted in the tables.

## TESTS

All the tests were made in the Langley high-speed 7- by 10-foot tunnel. The data presented in this report are representative of a flap-type control deflected from  $-30^\circ$  to  $30^\circ$  with an attached tab deflected from  $-20^\circ$  to  $20^\circ$  through a Mach number range from 0.60 to 0.93 at angles of attack from  $0^\circ$  to  $20^\circ$ . However, since the model was symmetrical, it was found convenient to fix the flap at a given positive flap deflection and test through the positive and negative angle-of-attack range and positive and negative tab-deflection range; this procedure explains the differences in the chordwise ordinates given in the tabulated data for the positive and negative flap deflections. The Reynolds number varied from about  $3.1 \times 10^6$  at  $M = 0.60$  to about  $4.0 \times 10^6$  at  $M = 0.93$  when based on the wing mean aerodynamic chord.

## PRESENTATION OF DATA

In order to expedite the publication of these data, the pressure coefficients are presented in tabular form without any discussion of the results. Table 2 gives a summary of the flap and tab deflections for which the pressure coefficients are given in tables 3 to 35. Representative chordwise pressure distributions are presented in figure 2 at a Mach number of 0.90, an angle of attack of  $0^\circ$ , and for both positive and negative flap and tab deflection. The tabulated data have been mathematically integrated by using the trapezoidal rule. In the reduction of the data, the contributions of the chord forces, which may be important in some cases, have been neglected in the computation of the section moments and normal forces, since these contributions were found to be small. Curves of the variation of the section normal-force, section pitching-moment, and section hinge-moment coefficients with flap deflection are presented in figures 3 to 8 for the wing, the flap, and the tab for tab deflections from  $-10^\circ$  to  $10^\circ$  and for angles of attack from  $0^\circ$  to  $20^\circ$  at Mach numbers of 0.60, 0.80, 0.90, and 0.93. The variation of the effectiveness parameters  $c_{n_{w\delta}}$ ,  $c_{n_{f\delta}}$ ,  $c_{n_{t\delta}}$ ,  $c_{m_c/4\delta}$ ,  $c_{h_{f\delta}}$ , and  $c_{h_{t\delta}}$  with Mach number is given with respect to both flap and tab deflection in figure 9.

Langley Aeronautical Laboratory,  
National Advisory Committee for Aeronautics,  
Langley Field, Va., January 7, 1954.

## REFERENCES

1. Lockwood, Vernard E., and Fikes, Joseph E.: Preliminary Investigation at Transonic Speeds of the Effect of Balancing Tabs on the Hinge-Moment and Other Aerodynamic Characteristics of a Full-Span Flap on a Tapered  $45^\circ$  Sweptback Wing of Aspect Ratio 3. NACA RM L52A23, 1952.
2. Hammond, Alexander D., and Keffer, Barbara M.: The Effect at High Subsonic Speeds of a Flap-Type Aileron on the Chordwise Pressure Distribution Near Midsemispan of a Tapered  $35^\circ$  Sweptback Wing of Aspect Ratio 4 Having NACA 65A006 Airfoil Section. NACA RM L53C23, 1953.



TABLE 1.- CHORDWISE AND VERTICAL COORDINATES FOR ORIFICES

$$\left[ \delta_f = 0^\circ; \delta_d = 0^\circ \right]$$

$x/c$	$z/c$	$x/c$	$z/c$
0	0	0.7400	-0.01837
.0100	.00680	.7500	.01775
.0200	-.00876	.7700	-.01639
.0400	.01180	.7800	.01570
.0600	-.01425	.8100	.01384
.0800	.01638	.8200	-.01334
.1000	-.01824	.8300	.01284
.1500	.02194	.8533	-.01167
.2133	-.02531	.8733	.01067
.2533	.02728	.8833	-.01017
.3033	-.02849	.9033	.00916
.3533	.02948	.9133	-.00866
.4167	-.02995	.9333	.00766
.4567	.02983	.9433	-.00716
.5067	-.02907	.9633	.00616
.5567	.02767	.9733	-.00566
.5867	-.02653	.9833	.00515
.6300	.02460	.9933	-.00465
.6500	-.02364	1.0033	.00415
.6700	.02253	1.0133	.00365
.6800	-.02198	1.0233	-.00315
.6900	.02142	1.0333	.00265
.7100	-.02025	1.0433	-.00215
.7200	.01962	1.0533	.00165
.7300	.01900	1.0583	-.00140

TABLE 2.- INDEX TO TABULATED DATA

Table	$\delta_f$	$\delta_t$	Table	$\delta_f$	$\delta_t$
3	0	0	20	30	-10
4	0	10	21	30	-20
5	0	20	22	-10	0
6	0	-10	23	-10	10
7	0	-20	24	-10	20
8	10	0	25	-10	-10
9	10	10	26	-10	-20
10	10	20	27	-20	0
11	10	-10	28	-20	10
12	10	-20	29	-20	20
13	20	0	30	-20	-10
14	20	10	31	-20	-20
15	20	20	32	-30	0
16	20	-10	33	-30	10
17	20	-20	34	-30	20
18	30	0	35	-30	-20
19	30	20			

TABLE 3. — PRESSURE COEFFICIENTS AT 0.46 SEMISPAN

 $(\beta_f = 0^\circ; \delta_f = 0^\circ)$ 

M=060

$\frac{X}{C}$ (g)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	1.469	1.968	1.501	2.351	2.128	1.990
0.0100	1.170	2.457	2.093	3.186	1.986	1.849
0.0200	1.218	1.735	1.550	1.443	1.385	1.371
0.0400	1.213	1.726	2.035	2.020	1.974	1.853
0.0600	1.218	1.684	1.696	1.563	1.478	1.423
0.0800	1.223	1.573	1.962	1.986	1.967	1.862
0.1000	1.237	1.967	1.797	1.653	1.565	1.508
0.1500	1.238	1.460	1.646	1.930	1.943	1.853
0.2133	1.261	1.073	1.732	1.806	1.728	1.671
0.2533	1.254	1.427	1.700	1.838	1.908	1.835
0.3033	1.268	1.108	1.966	1.897	1.818	1.767
0.3533	1.265	1.402	1.553	1.752	1.884	1.829
0.4167	1.263	1.150	1.054	1.963	1.908	1.870
0.4567	1.200	1.377	1.494	1.667	1.071	1.911
0.5067	1.261	1.156	1.081	1.009	1.974	1.944
0.5567	1.223	1.212	1.730	1.590	1.858	1.806
0.5867	1.248	1.164	1.101	1.043	1.023	1.003
0.6300	1.232	1.288	1.370	1.075	1.842	1.772
0.6500	1.220	1.147	1.096	1.052	1.047	1.041
0.6700	1.206	1.256	1.338	1.500	1.826	1.765
0.6800	1.213	1.144	1.085	1.064	1.064	1.055
0.6900	1.218	1.253	1.334	1.501	1.848	1.781
0.7100	1.187	1.134	1.094	1.060	1.080	1.079
0.7200	1.187	1.233	1.299	1.469	1.811	1.750
0.7300	1.187	1.219	1.297	1.075	1.800	1.763
0.7400	1.158	1.111	1.074	1.054	1.074	1.081
0.7500	1.166	1.207	1.278	1.448	1.794	1.761
0.7700	1.106	1.087	1.056	1.073	1.074	1.083
0.7800	1.143	1.179	1.247	1.421	1.781	1.768
0.8100	1.123	1.158	1.224	1.401	1.764	1.759
0.8200	1.128	1.067	1.021	1.038	1.083	1.105
0.8300	1.128	1.157	1.216	1.388	1.754	1.754
0.8533	1.104	1.073	1.053	1.060	1.111	1.147
0.8733	1.123	1.144	1.153	1.360	1.730	1.744
0.8833	1.106	1.071	1.056	1.073	1.074	1.180
0.9033	1.109	1.128	1.173	1.332	1.713	1.730
0.9133	1.109	1.068	1.057	1.082	1.167	1.212
0.9333	1.116	1.166	1.157	1.357	1.698	1.728
0.9433	1.106	1.069	1.065	1.103	1.206	1.255
0.9633	1.098	1.111	1.146	1.299	1.686	1.723
0.9733	1.082	1.068	1.066	1.116	1.255	1.310
0.9833	1.094	1.104	1.136	1.286	1.670	1.718
0.9933	1.070	1.036	1.058	1.118	1.243	1.348
1.0033	1.072	1.074	1.124	1.278	1.677	1.694
1.0133	1.079	1.079	1.129	1.278	1.671	1.698
1.0233	1.044	1.037	1.055	1.138	1.337	1.381
1.0333	1.074	1.071	1.118	1.270	1.666	1.677
1.0433	1.054	1.054	1.080	1.190	1.461	1.499
1.0533	1.075	1.048	1.087	1.187	1.632	1.679
1.0583	1.052	1.055	1.095	1.248	1.618	1.675

M=080

$\frac{X}{C}$ (g)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	1.523	1.803	1.252	1.609	1.895	2.061
0.0100	1.204	2.387	2.547	2.801	2.002	1.937
0.0200	1.322	1.832	1.610	1.338	1.443	1.420
0.0400	1.275	1.930	2.824	2.502	2.017	1.954
0.0600	1.314	1.970	1.765	1.635	1.544	1.488
0.0800	1.296	1.680	2.659	2.185	2.020	1.951
0.1000	1.335	1.059	1.856	1.729	1.631	1.567
0.1500	1.322	1.603	2.300	2.143	1.961	1.902
0.2133	1.369	1.167	1.999	1.883	1.788	1.724
0.2533	1.346	1.561	1.768	2.074	1.942	1.893
0.3033	1.379	1.211	1.071	1.967	1.884	1.826
0.3533	1.377	1.537	1.642	2.020	1.917	1.886
0.4167	1.388	1.255	1.137	1.050	1.976	1.930
0.4567	1.391	1.513	1.658	1.976	1.891	1.878
0.5067	1.372	1.266	1.166	1.099	1.045	1.009
0.5567	1.363	1.452	1.489	1.927	1.866	1.866
0.5867	1.356	1.272	1.191	1.140	1.096	1.076
0.6300	1.326	1.388	1.428	1.696	1.648	1.664
0.6500	1.313	1.243	1.182	1.151	1.123	1.113
0.6700	1.295	1.351	1.193	1.172	1.140	1.159
0.6800	1.305	1.233	1.163	1.163	1.144	1.137
0.6900	1.301	1.343	1.394	1.890	1.846	1.859
0.7100	1.283	1.226	1.182	1.170	1.825	1.156
0.7200	1.275	1.355	1.351	1.338	1.612	1.355
0.7300	1.263	1.306	1.346	1.118	1.443	1.847
0.7400	1.242	1.198	1.157	1.151	1.146	1.154
0.7500	1.250	1.291	1.334	1.609	1.613	1.849
0.7700	1.167	1.185	1.156	1.135	1.149	1.170
0.7800	1.221	1.258	1.305	1.762	1.796	1.846
0.8100	1.200	1.237	1.281	1.736	1.780	1.836
0.8200	1.177	1.141	1.159	1.171	1.152	1.188
0.8300	1.205	1.238	1.281	1.730	1.774	1.833
0.8533	1.175	1.154	1.137	1.158	1.182	1.206
0.8733	1.170	1.154	1.139	1.171	1.208	1.241
0.9033	1.182	1.201	1.238	1.646	1.739	1.821
0.9133	1.162	1.150	1.146	1.188	1.235	1.276
0.9333	1.167	1.185	1.225	1.233	1.288	1.315
0.9433	1.152	1.149	1.152	1.208	1.270	1.316
0.9633	1.163	1.177	1.214	1.595	1.713	1.805
0.9733	1.141	1.141	1.156	1.167	1.314	1.367
0.9833	1.151	1.169	1.206	1.565	1.692	1.799
0.9933	1.142	1.148	1.172	1.275	1.368	1.434
1.0033	1.142	1.151	1.195	1.578	1.717	1.821
1.0133	1.143	1.143	1.191	1.567	1.701	1.803
1.0233	1.108	1.107	1.136	1.280	1.390	1.448
1.0333	1.138	1.139	1.185	1.563	1.708	1.813
1.0433	1.104	1.107	1.168	1.379	1.514	1.589
1.0533	1.103	1.117	1.168	1.507	1.666	1.787
1.0583	1.105	1.126	1.185	1.487	1.653	1.782

M=090

$\frac{X}{C}$ (g)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	1.562	1.726	1.019	1.334	1.530	1.730
0.0100	1.386	2.359	2.542	2.801	2.002	1.937
0.0200	1.386	1.909	1.697	1.572	1.486	1.420
0.0400	1.324	2.169	2.486	2.560	2.017	1.954
0.0600	1.386	1.941	1.849	1.708	1.631	1.567
0.0800	1.343	1.796	2.404	2.360	2.017	1.954
0.1000	1.416	1.121	1.941	1.800	1.631	1.567
0.1500	1.378	1.684	2.309	2.224	1.961	1.902
0.2133	1.378	1.243	1.977	2.254	1.883	1.724
0.2533	1.416	1.668	2.230	2.175	1.961	1.902
0.3033	1.496	1.289	1.158	1.043	1.961	1.902
0.3533	1.473	1.681	1.893	2.105	1.961	1.902
0.4167	1.521	1.349	1.230	1.134	1.961	1.902
0.4567	1.511	1.722	1.925	2.045	1.961	1.902
0.5067	1.508	1.369	1.272	1.194	1.961	1.902
0.5567	1.472	1.374	1.299	1.238	1.961	1.902
0.5867	1.419	1.545	1.843	1.942	1.961	1.902
0.6300	1.408	1.343	1.294	1.260	1.961	1.902
0.6500	1.375	1.436	1.218	1.222	1.961	1.902
0.6700	1.389	1.338	1.289	1.275	1.961	1.902
0.6800	1.366	1.325	1.288	1.256	1.961	1.902
0.6900	1.349	1.383	1.568	1.894	1.961	1.902
0.7100	1.336	1.369	1.540	1.877	1.961	1.902
0.7200	1.314	1.286	1.258	1.266	1.961	1.902
0.7300	1.319	1.350	1.495	1.873	1.961	1.902
0.7400	1.264	1.348	1.228	1.249	1.961	1.902
0.7500	1.283	1.314	1.424	1.811	1.961	1.902
0.7700	1.258	1.290	1.390	1.809	1.961	1.902
0.8100	1.237	1.223	1.209	1.242	1.961	1.902
0.8200	1.266	1.283	1.165	1.100	1.961	1.902
0.8300	1.253	1.222	1.222	1.207	1.961	1.902
0.8533	1.253	1.266	1.321	1.767	1.961	1.902
0.8733	1.227	1.225	1.220	1.285	1.961	1.902
0.8833	1.335	1.245	1.026	1.046	1.961	1.902
0.9033	1.319	1.219	1.220	1.306	1.961	1.902
0.9133	1.220	1.230	1.264	1.724	1.961	1.902
0.9333	1.215	1.217	1.223	1.327	1.961	1.902
0.9433	1.216	1.220	1.243	1.258	1.961	1.902
0.9633	1.204	1.208	1.221	1.356	1.961	1.902
0.9733	1.212	1.211	1.234	1.669	1.961	1.902
0.9833	1.212	1.212	1.232	1.242	1.961	1.902
0.9933	1.191	1.195	1.223	1.705	1.961	1.902
1.0033	1.193	1.197	1.218	1.684	1.961	1.902
1.0133	1.151	1.160	1.186	1.391	1.961	1.902
1.0233	1.187	1.188	1.209	1.687	1.961	1.902
1.0333	1.155	1.173	1.206	1.496	1.961	1.902
1.0433	1.157	1.161	1.192	1.642	1.961	1.902
1.0533	1.163	1.173	1.211	1.629	1.961	1.902
1.0583	1.163	1.173	1.211	1.629	1.961	1.902

M=093

$\frac{X}{C}$ (g)	S	
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TABLE 4. - PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.  
( $\delta=0^\circ$ ;  $\delta_i=10^\circ$ )

$\frac{x}{c}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
0.0000	1.4556	1.0115	1.5700	2.3309	2.1955	1.9449
0.0100	1.2199	2.4994	2.2298	3.2774	2.0311	1.8410
0.0200	1.1270	1.7166	2.5517	1.4446	1.3888	1.3700
0.0300	1.1237	1.7668	2.2773	1.9533	2.0266	1.8433
0.0400	1.1247	1.8668	1.6670	1.5666	1.4766	1.4200
0.0500	1.1240	1.5996	2.1651	1.7223	2.0100	1.8451
0.0600	1.1207	1.5004	2.1046	1.6075	1.9822	1.8377
0.0700	1.1240	1.0663	1.9113	1.8022	1.7266	1.6584
0.0800	1.1257	1.1448	1.6815	1.8122	1.9444	1.8244
0.0900	1.1247	1.1092	1.9777	1.8882	1.8155	1.7522
0.1000	1.1240	1.0663	1.9113	1.8022	1.7266	1.6584
0.1100	1.1257	1.1448	1.6815	1.8122	1.9444	1.8244
0.1200	1.1247	1.1092	1.9777	1.8882	1.8155	1.7522
0.1300	1.1240	1.0663	1.9113	1.8022	1.7266	1.6584
0.1400	1.1257	1.1448	1.6815	1.8122	1.9444	1.8244
0.1500	1.1247	1.1092	1.9777	1.8882	1.8155	1.7522
0.1600	1.1240	1.0663	1.9113	1.8022	1.7266	1.6584
0.1700	1.1257	1.1448	1.6815	1.8122	1.9444	1.8244
0.1800	1.1247	1.1092	1.9777	1.8882	1.8155	1.7522
0.1900	1.1240	1.0663	1.9113	1.8022	1.7266	1.6584
0.2000	1.1257	1.1448	1.6815	1.8122	1.9444	1.8244
0.2100	1.1247	1.1092	1.9777	1.8882	1.8155	1.7522
0.2200	1.1240	1.0663	1.9113	1.8022	1.7266	1.6584
0.2300	1.1257	1.1448	1.6815	1.8122	1.9444	1.8244
0.2400	1.1247	1.1092	1.9777	1.8882	1.8155	1.7522
0.2500	1.1240	1.0663	1.9113	1.8022	1.7266	1.6584
0.2600	1.1257	1.1448	1.6815	1.8122	1.9444	1.8244
0.2700	1.1247	1.1092	1.9777	1.8882	1.8155	1.7522
0.2800	1.1240	1.0663	1.9113	1.8022	1.7266	1.6584
0.2900	1.1257	1.1448	1.6815	1.8122	1.9444	1.8244
0.3000	1.1247	1.1092	1.9777	1.8882	1.8155	1.7522
0.3100	1.1240	1.0663	1.9113	1.8022	1.7266	1.6584
0.3200	1.1257	1.1448	1.6815	1.8122	1.9444	1.8244
0.3300	1.1247	1.1092	1.9777	1.8882	1.8155	1.7522
0.3400	1.1240	1.0663	1.9113	1.8022	1.7266	1.6584
0.3500	1.1257	1.1448	1.6815	1.8122	1.9444	1.8244
0.3600	1.1247	1.1092	1.9777	1.8882	1.8155	1.7522
0.3700	1.1240	1.0663	1.9113	1.8022	1.7266	1.6584
0.3800	1.1257	1.1448	1.6815	1.8122	1.9444	1.8244
0.3900	1.1247	1.1092	1.9777	1.8882	1.8155	1.7522
0.4000	1.1240	1.0663	1.9113	1.8022	1.7266	1.6584
0.4100	1.1257	1.1448	1.6815	1.8122	1.9444	1.8244
0.4200	1.1247	1.1092	1.9777	1.8882	1.8155	1.7522
0.4300	1.1240	1.0663	1.9113	1.8022	1.7266	1.6584
0.4400	1.1257	1.1448	1.6815	1.8122	1.9444	1.8244
0.4500	1.1247	1.1092	1.9777	1.8882	1.8155	1.7522
0.4600	1.1240	1.0663	1.9113	1.8022	1.7266	1.6584
0.4700	1.1257	1.1448	1.6815	1.8122	1.9444	1.8244
0.4800	1.1247	1.1092	1.9777	1.8882	1.8155	1.7522
0.4900	1.1240	1.0663	1.9113	1.8022	1.7266	1.6584
0.5000	1.1257	1.1448	1.6815	1.8122	1.9444	1.8244
0.5100	1.1247	1.1092	1.9777	1.8882	1.8155	1.7522
0.5200	1.1240	1.0663	1.9113	1.8022	1.7266	1.6584
0.5300	1.1257	1.1448	1.6815	1.8122	1.9444	1.8244
0.5400	1.1247	1.1092	1.9777	1.8882	1.8155	1.7522
0.5500	1.1240	1.0663	1.9113	1.8022	1.7266	1.6584
0.5600	1.1257	1.1448	1.6815	1.8122	1.9444	1.8244
0.5700	1.1247	1.1092	1.9777	1.8882	1.8155	1.7522
0.5800	1.1240	1.0663	1.9113	1.8022	1.7266	1.6584
0.5900	1.1257	1.1448	1.6815	1.8122	1.9444	1.8244
0.6000	1.1247	1.1092	1.9777	1.8882	1.8155	1.7522
0.6100	1.1240	1.0663	1.9113	1.8022	1.7266	1.6584
0.6200	1.1257	1.1448	1.6815	1.8122	1.9444	1.8244
0.6300	1.1247	1.1092	1.9777	1.8882	1.8155	1.7522
0.6400	1.1240	1.0663	1.9113	1.8022	1.7266	1.6584
0.6500	1.1257	1.1448	1.6815	1.8122	1.9444	1.8244
0.6600	1.1247	1.1092	1.9777	1.8882	1.8155	1.7522
0.6700	1.1240	1.0663	1.9113	1.8022	1.7266	1.6584
0.6800	1.1257	1.1448	1.6815	1.8122	1.9444	1.8244
0.6900	1.1247	1.1092	1.9777	1.8882	1.8155	1.7522
0.7000	1.1240	1.0663	1.9113	1.8022	1.7266	1.6584
0.7100	1.1257	1.1448	1.6815	1.8122	1.9444	1.8244
0.7200	1.1247	1.1092	1.9777	1.8882	1.8155	1.7522
0.7300	1.1240	1.0663	1.9113	1.8022	1.7266	1.6584
0.7400	1.1257	1.1448	1.6815	1.8122	1.9444	1.8244
0.7500	1.1247	1.1092	1.9777	1.8882	1.8155	1.7522
0.7600	1.1240	1.0663	1.9113	1.8022	1.7266	1.6584
0.7700	1.1257	1.1448	1.6815	1.8122	1.9444	1.8244
0.7800	1.1247	1.1092	1.9777	1.8882	1.8155	1.7522
0.7900	1.1240	1.0663	1.9113	1.8022	1.7266	1.6584
0.8000	1.1257	1.1448	1.6815	1.8122	1.9444	1.8244
0.8100	1.1247	1.1092	1.9777	1.8882	1.8155	1.7522
0.8200	1.1240	1.0663	1.9113	1.8022	1.7266	1.6584
0.8300	1.1257	1.1448	1.6815	1.8122	1.9444	1.8244
0.8400	1.1247	1.1092	1.9777	1.8882	1.8155	1.7522
0.8500	1.1240	1.0663	1.9113	1.8022	1.7266	1.6584
0.8600	1.1257	1.1448	1.6815	1.8122	1.9444	1.8244
0.8700	1.1247	1.1092	1.9777	1.8882	1.8155	1.7522
0.8800	1.1240	1.0663	1.9113	1.8022	1.7266	1.6584
0.8900	1.1257	1.1448	1.6815	1.8122	1.9444	1.8244
0.9000	1.1247	1.1092	1.9777	1.8882	1.8155	1.7522
0.9100	1.1240	1.0663	1.9113	1.8022	1.7266	1.6584
0.9200	1.1257	1.1448	1.6815	1.8122	1.9444	1.8244
0.9300	1.1247	1.1092	1.9777	1.8882	1.8155	1.7522
0.9400	1.1240	1.0663	1.9113	1.8022	1.7266	1.6584
0.9500	1.1257	1.1448	1.6815	1.8122	1.9444	1.8244
0.9600	1.1247	1.1092	1.9777	1.8882	1.8155	1.7522
0.9700	1.1240	1.0663	1.9113	1.8022	1.7266	1.6584
0.9800	1.1257	1.1448	1.6815	1.8122	1.9444	1.8244
0.9900	1.1247	1.1092	1.9777	1.8882	1.8155	1.7522
1.0000	1.1240	1.0663	1.9113	1.8022	1.7266	1.6584

$M=0.80$						
$\frac{x}{c}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
0.0000	5.1515	5.8000	1.2444	1.6225	1.9447	2.0446
0.0100	3.2333	3.3999	2.8122	2.2820	2.0447	1.9116
0.0200	1.4000	1.8211	1.6111	1.4999	1.4441	1.4111
0.0300	1.2297	1.9778	2.6655	2.2133	2.0662	1.9228
0.0400	1.1291	1.6920	2.7611	2.6334	2.5443	1.4775
0.0500	1.1002	1.0353	2.8855	2.7277	2.0667	1.9229
0.0600	1.1234	1.0353	2.8855	2.7277	1.9200	1.7128
0.0700	1.1322	1.6005	2.7049	2.1556	2.0144	1.8998
0.0800	1.1359	1.1554	2.9992	1.8866	2.0785	1.7689
0.0900	1.1344	1.5611	1.7866	2.1052	1.9751	1.9111
0.1000	1.1366	1.2022	1.0669	2.9677	1.8881	1.8100
0.1100	1.1377	1.5466	1.7444	2.0449	1.9651	1.8880
0.1200	1.1377	1.5466	1.7444	2.0449	1.9651	1.8880
0.1300	1.1403	1.6335	2.0007	1.9331	1.8667	1.8667
0.1400	1.1350	1.2855	1.1600	1.1001	1.0441	1.9887
0.1500	1.1385	1.4778	1.5559	1.1338	1.1055	1.8558
0.1600	1.1339	1.2555	1.1777	1.1337	1.0887	1.0444
0.1700	1.1350	1.2855	1.1600	1.1001	1.0441	1.9887
0.1800	1.1385	1.4778	1.5559	1.1338	1.1055	1.8558
0.1900	1.1339	1.2555	1.1777	1.1337	1.0887	1.0444
0.2000	1.1350	1.2855	1.1600	1.1001	1.0441	1.9887
0.2100	1.1385	1.4778	1.5559	1.1338	1.1055	1.8558
0.2200	1.1339	1.2555	1.1777	1.1337	1.0887	1.0444
0.2300	1.1350	1.2855	1.1600	1.1001	1.0441	1.9887
0.2400	1.1385	1.4778	1.5559	1.1338	1.1055	1.8558
0.2500	1.1339	1.2555	1.1777	1.1337	1.0887	1.0444
0.2600	1.1350	1.2855	1.1600	1.1001	1.0441	1.9887
0.2700	1.1385	1.4778	1.5559	1.1338	1.1055	1.8558
0.2800	1.1339	1.2555	1.1777	1.1337	1.0887	1.0444
0.2900	1.1350	1.2855	1.1600	1.1001	1.0441	1.9887
0.3000	1.1385	1.4778	1.5559	1.1338	1.1055	1.8558
0.3100	1.1339	1.2555	1.1777	1.1337	1.0887	1.0444
0.3200	1.1350	1.2855	1.1600	1.1001	1.0441	1.9887
0.3300	1.1385	1.4778	1.5559	1.1338	1.1055	1.8558
0.3400	1.1339	1.2555	1.1777	1.1337	1.0887	1.0444
0.3500	1.1350	1.2855	1.1600	1.1001	1.0441	1.9887
0.3600	1.1385	1.4778	1.5559	1.1338	1.1055	1.8558
0.3700	1.1339	1.2555	1.1777	1.1337	1.0887	1.0444
0.3800	1.1350	1.2855	1.1600	1.1001	1.0441	1.9887
0.3900	1.1385	1.4778	1.5559	1.1338	1.1055	1.8558
0.4000	1.1339	1.2555	1.1777	1.1337	1.0887	1.0444
0.4100	1.1350	1.2855	1.1600	1.1001	1.0441	1.9887
0.4200	1.1385	1.4778	1.5559	1.1338	1.1055	1.8558
0.4300	1.1339	1.2555	1.1777	1.1337	1.0887	1.0444
0.4400	1.1350	1.2855	1.1600	1.1001	1.0441	1.9887
0.4500	1.1385	1.4778	1.5559	1.1338	1.1055	1.8558
0.4600	1.1339	1.2555	1.1777	1.1337	1.0887	1.0444
0.4700	1.1350	1.2855	1.1600	1.1001	1.0441	1.9887
0.4800	1.1385	1.4778	1.5559	1.1338	1.1055	1.8558
0.4900	1.1339	1.2555	1.1777	1.1337	1.0887	1.0444
0.5000	1.1350	1.2855	1.1600	1.1001	1.0441	1.9887
0.5100	1.1385	1.4778	1.5559	1.1338	1.1055	1.8558
0.5200	1.1339	1.2555	1.1777	1.1337	1.0887	1.0444
0.5300	1.1350	1.2855	1.1600	1.1001	1.0441	1.9887
0.5400	1.1385	1.4778	1.5559	1.1338	1.1055	1.8558
0.5500	1.1339	1.2555	1.1777	1.1337	1.0887	1.0444
0.5600	1.1350	1.2855	1.1600	1.1001	1.0441	1.9887
0.5700	1.1385	1.4778	1.5559	1.1338	1.1055	1.8558
0.5800	1.1339	1.2555	1.1777	1.1337	1.0887	1.0444
0.5900	1.1350	1.2855	1.1600	1.1001	1.0441	1.9887
0.6000	1.1385	1.4778	1.5559	1.1338	1.1055	1.8558
0.6100	1.1339	1.2555	1.1777	1.1337	1.0887	1.0444
0.6200	1.1350	1.2855	1.1600	1.1001	1.0441	1.9887
0.6300	1.1385	1.4778	1.5559	1.1338	1.1055	1.8558
0.6400	1.1339	1.2555	1.1777	1.1337	1.0887	1.0444
0.6500	1.1350	1.2855	1.1600	1.1001	1.0441	1.9887
0.6600	1.1385	1.4778	1.5559	1.1338	1.1055	1.8558
0.6700	1.1339	1.2555	1.1777	1.1337	1.0887	1.0444
0.6800	1.1350	1.2855	1.1600	1.1001	1.0441	1.9887
0.6900	1.1385	1.4778	1.5559	1.1338	1.1055	1.8558
0.7000	1.1339	1.2555	1.1777	1.1337	1.0887	1.0444
0.7100	1.1350	1.2855	1.1600	1.1001	1.0441	1.9887
0.7200	1.1385	1.4778	1.5559	1.1338	1.1055	1.8558
0.7300	1.1339	1.2555	1.1777	1.1337	1.0887	1.0444
0.7400	1.1350	1.2855	1.1600	1.1001	1.0441	1.9887
0.7500	1.1385	1.4778	1.5559	1.1338	1.1055	1.8558
0.7600	1.1339	1.2555	1.1777	1.1337	1.0887	1.0444
0.7700	1.1350	1.2855	1.1600	1.1001	1.0441	1.9887
0.7800	1.1385	1.4778	1.5559	1.1338	1.1055	1.8558
0.7900	1.1339	1.2555	1.1777	1.1337	1.0887	1.0444
0.8000	1.1350	1.2855	1.1600	1.1001	1.0441	1.9887
0.8100	1.1385	1.4778	1.5559	1.1338	1.1055	1.8558
0.8200	1.1339	1.2555	1.1777	1.1337	1.0887	1.0444
0.8300	1.1350	1.2855	1.1600	1.1001	1.0441	1.9887
0.8400	1.1385	1.4778	1.5559	1.1338	1.1055	1.8558
0.8500	1.1339	1.2555	1.1777	1.1337	1.0887	1.0444
0.8600	1.1350	1.2855	1.1600	1.1001	1.0441	1.9887
0.8700	1.1385	1.4778	1.5559	1.1338	1.1055	1.8558
0.8800	1.1339	1.2555	1.1777	1.1337	1.0887	1.0444
0.8900	1.1350	1.2855	1.1600	1.1001	1.0441	1.9887
0.9000	1.1385	1.4778	1.5559	1.1338	1.1055	1.8558
0.9100	1.1339	1.2555	1.1777	1.1337	1.0887	1.0444
0.9200	1.1350	1.2855	1.1600	1.1001	1.0441	1.9887
0.9300	1.1385	1.4778	1.5559	1.1338	1.1055	1.8558
0.9400	1.1339	1.2555	1.1777	1.1337	1.0887	1.0444
0.9500	1.1350	1.2855	1.1600	1.1001	1.0441	1.9887
0.9600	1.1385	1.4778	1.5559	1.1338	1.1055	1.8558
0.9700	1.1339	1.2555	1.1777	1.1337	1.0887	1.0444
0.9800	1.1350	1.2855	1.1600	1.1001	1.0441	1.9887
0.9900	1.1385	1.4778	1.5559	1.1338	1.1055	1.8558
1.0000	1.1339	1.2555	1.1777	1.1337	1.0887	1.0444

TABLE 5. - PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.  
( $\delta_f=0^\circ$ ;  $\delta_r=20^\circ$ )

$M=0.60$

$\frac{x}{c}$ (a)	s					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	1.450	1.055	1.2657	2.375	2.218	1.9339
.0100	1.235	2.1550	2.356	3.369	2.038	1.863
.0200	1.149	1.716	2.518	4.439	1.382	1.371
.0400	1.251	1.815	2.374	1.987	2.039	1.8557
.0600	1.188	1.869	2.470	1.553	2.468	1.422
.0800	1.288	1.636	2.272	1.942	2.028	1.861
.1000	1.197	1.957	2.762	1.641	1.555	1.493
.1200	1.274	1.531	2.143	1.893	1.997	1.8544
.1400	1.227	1.064	7.901	1.768	1.921	1.796
.1600	1.266	1.472	1.681	1.852	1.960	1.8339
.1800	1.233	1.455	1.671	1.768	1.941	1.842
.2000	1.233	1.097	1.266	1.866	1.801	1.742
.2200	1.233	1.133	1.022	1.768	1.884	1.830
.2400	1.233	1.133	1.022	1.768	1.884	1.830
.2600	1.233	1.133	1.022	1.768	1.884	1.830
.2800	1.233	1.133	1.022	1.768	1.884	1.830
.3000	1.233	1.133	1.022	1.768	1.884	1.830
.3200	1.233	1.133	1.022	1.768	1.884	1.830
.3400	1.233	1.133	1.022	1.768	1.884	1.830
.3600	1.233	1.133	1.022	1.768	1.884	1.830
.3800	1.233	1.133	1.022	1.768	1.884	1.830
.4000	1.233	1.133	1.022	1.768	1.884	1.830
.4200	1.233	1.133	1.022	1.768	1.884	1.830
.4400	1.233	1.133	1.022	1.768	1.884	1.830
.4600	1.233	1.133	1.022	1.768	1.884	1.830
.4800	1.233	1.133	1.022	1.768	1.884	1.830
.5000	1.233	1.133	1.022	1.768	1.884	1.830
.5200	1.233	1.133	1.022	1.768	1.884	1.830
.5400	1.233	1.133	1.022	1.768	1.884	1.830
.5600	1.233	1.133	1.022	1.768	1.884	1.830
.5800	1.233	1.133	1.022	1.768	1.884	1.830
.6000	1.233	1.133	1.022	1.768	1.884	1.830
.6200	1.233	1.133	1.022	1.768	1.884	1.830
.6400	1.233	1.133	1.022	1.768	1.884	1.830
.6600	1.233	1.133	1.022	1.768	1.884	1.830
.6800	1.233	1.133	1.022	1.768	1.884	1.830
.7000	1.233	1.133	1.022	1.768	1.884	1.830
.7200	1.233	1.133	1.022	1.768	1.884	1.830
.7400	1.233	1.133	1.022	1.768	1.884	1.830
.7600	1.233	1.133	1.022	1.768	1.884	1.830
.7800	1.233	1.133	1.022	1.768	1.884	1.830
.8000	1.233	1.133	1.022	1.768	1.884	1.830
.8200	1.233	1.133	1.022	1.768	1.884	1.830
.8400	1.233	1.133	1.022	1.768	1.884	1.830
.8600	1.233	1.133	1.022	1.768	1.884	1.830
.8800	1.233	1.133	1.022	1.768	1.884	1.830
.9000	1.233	1.133	1.022	1.768	1.884	1.830
.9200	1.233	1.133	1.022	1.768	1.884	1.830
.9400	1.233	1.133	1.022	1.768	1.884	1.830
.9600	1.233	1.133	1.022	1.768	1.884	1.830
.9800	1.233	1.133	1.022	1.768	1.884	1.830
1.0000	1.233	1.133	1.022	1.768	1.884	1.830

$M=0.80$

$\frac{x}{c}$ (a)	s					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	1.511	1.810	1.268	1.641	2.008	2.065
.0100	1.252	2.454	2.910	1.239	2.093	1.934
.0200	1.279	2.811	2.606	1.499	1.447	1.407
.0400	1.307	2.015	2.806	2.332	1.008	1.948
.0600	1.297	1.955	2.757	1.532	1.560	1.473
.0800	1.316	1.717	2.567	2.320	2.116	1.941
.1000	1.314	1.034	1.856	1.722	1.634	1.547
.1200	1.334	1.629	2.204	2.179	2.061	1.908
.1400	1.351	1.138	1.993	1.673	1.793	1.701
.1600	1.357	1.580	1.830	2.125	2.039	1.893
.1800	1.364	1.168	1.062	1.917	1.877	1.797
.2000	1.364	1.168	1.062	1.917	1.877	1.797
.2200	1.364	1.168	1.062	1.917	1.877	1.797
.2400	1.364	1.168	1.062	1.917	1.877	1.797
.2600	1.364	1.168	1.062	1.917	1.877	1.797
.2800	1.364	1.168	1.062	1.917	1.877	1.797
.3000	1.364	1.168	1.062	1.917	1.877	1.797
.3200	1.364	1.168	1.062	1.917	1.877	1.797
.3400	1.364	1.168	1.062	1.917	1.877	1.797
.3600	1.364	1.168	1.062	1.917	1.877	1.797
.3800	1.364	1.168	1.062	1.917	1.877	1.797
.4000	1.364	1.168	1.062	1.917	1.877	1.797
.4200	1.364	1.168	1.062	1.917	1.877	1.797
.4400	1.364	1.168	1.062	1.917	1.877	1.797
.4600	1.364	1.168	1.062	1.917	1.877	1.797
.4800	1.364	1.168	1.062	1.917	1.877	1.797
.5000	1.364	1.168	1.062	1.917	1.877	1.797
.5200	1.364	1.168	1.062	1.917	1.877	1.797
.5400	1.364	1.168	1.062	1.917	1.877	1.797
.5600	1.364	1.168	1.062	1.917	1.877	1.797
.5800	1.364	1.168	1.062	1.917	1.877	1.797
.6000	1.364	1.168	1.062	1.917	1.877	1.797
.6200	1.364	1.168	1.062	1.917	1.877	1.797
.6400	1.364	1.168	1.062	1.917	1.877	1.797
.6600	1.364	1.168	1.062	1.917	1.877	1.797
.6800	1.364	1.168	1.062	1.917	1.877	1.797
.7000	1.364	1.168	1.062	1.917	1.877	1.797
.7200	1.364	1.168	1.062	1.917	1.877	1.797
.7400	1.364	1.168	1.062	1.917	1.877	1.797
.7600	1.364	1.168	1.062	1.917	1.877	1.797
.7800	1.364	1.168	1.062	1.917	1.877	1.797
.8000	1.364	1.168	1.062	1.917	1.877	1.797
.8200	1.364	1.168	1.062	1.917	1.877	1.797
.8400	1.364	1.168	1.062	1.917	1.877	1.797
.8600	1.364	1.168	1.062	1.917	1.877	1.797
.8800	1.364	1.168	1.062	1.917	1.877	1.797
.9000	1.364	1.168	1.062	1.917	1.877	1.797
.9200	1.364	1.168	1.062	1.917	1.877	1.797
.9400	1.364	1.168	1.062	1.917	1.877	1.797
.9600	1.364	1.168	1.062	1.917	1.877	1.797
.9800	1.364	1.168	1.062	1.917	1.877	1.797
1.0000	1.364	1.168	1.062	1.917	1.877	1.797

$M=0.90$

$\frac{x}{c}$ (a)	s					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	1.548	1.716	1.7018	1.351		
.0100	1.238	2.243	2.539	2.544		
.0200	1.343	1.907	2.698	2.572		
.0400	1.266	2.166	2.479	2.530		
.0600	1.352	1.041	1.848	2.713		
.0800	1.342	1.922	2.383	2.516		
.1000	1.388	1.164	2.941	2.803		
.1200	1.377	1.294	2.275	2.491		
.1400	1.449	1.243	1.081	1.957		
.1600	1.412	1.672	2.201	2.265		
.1800	1.480	1.294	1.158	1.045		
.2000	1.470	1.671	2.086	2.142		
.2200	1.511	1.347	2.229	1.131		
.2400	1.503	1.709	1.926	2.056		
.2600	1.518	1.733	1.888	1.973		
.2800	1.437	1.351	1.280	1.217		
.3000	1.437	1.728	1.859	1.942		
.3200	1.350	1.306	1.265	1.319		
.3400	1.394	1.643	1.831	1.926		
.3600	1.421	1.291	1.250	1.225		
.3800	1.350	1.559	1.778	1.928		
.4000	1.255	1.253	1.224	1.207		
.4200	1.384	1.539	1.791	1.915		
.4400	1.377	1.890	1.773	1.902		
.4600	1.199	1.202	1.178	1.173		
.4800	1.379	1.503	1.750	1.899		
.5000	1.142	1.150	1.136	1.137		
.5200	1.354	1.468	1.687	1.879		
.5400	1.370	1.465	1.670	1.868		
.5600	1.096	1.103	1.085	1.106		
.5800	1.379	1.463	1.655	1.861		
.6000	1.071	1.079	1.071	1.093		
.6200	1.353	1.443	1.595	1.828		
.6400	1.145	1.051	1.046	1.076		
.6600	1.071	1.079	1.071	1.093		
.6800	1.353	1.443	1.595	1.828		
.7000	1.145	1.051	1.046	1.076		
.7200	1.071	1.079	1.071	1.093		
.7400	1.353	1.443	1.595	1.828		
.7600	1.145	1.051	1.046	1.076		
.7800	1.071	1.079	1.071	1.093		
.8000	1.353	1.443	1.595	1.828		
.8200	1.145	1.051	1.046	1.076		
.8400	1.071	1.079	1.071	1.093		
.8600	1.353	1.443	1.595	1.828		
.8800	1.145	1.051	1.046	1.076		
.9000	1.071	1.079	1.071	1.093		
.9200	1.353	1.443	1.595	1.828		
.9400	1.145	1.051	1.046	1.076		
.9600	1.071	1.079	1.071	1.093		
.9800	1.353	1.443	1.595	1.828		
1.0000	1.145	1.051	1.046	1.076		

$M=0.93$						
$\frac{x}{c}$	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	1.570	.693	1.761	1.279		
.0100	1.265	2.145	2.470	2.520		
.0200	1.400	.865	2.739	2.601		
.0400	1.277	2.073	2.399	2.537		
.0600	1.405	1.094	.886	.744		
.0800	1.1383	1.828	2.315	2.530		
.1000	1.124	1.764	2.478	2.838		
.1500	1.1407	1.694	2.227	2.455		
.2133	1.491	1.293	1.125	.994		
.2533	1.454	1.702	2.207	2.422		
.3033	1.412	1.860	1.939	.084		
.3533	1.515	1.710	1.875	2.319		
.4167	1.556	1.437	1.268	1.175		
.4771	1.580	1.737	1.310	1.376		
.5067	1.591	1.492	1.339	1.234		
.5567	1.616	1.755	1.930	2.122		
.6067	1.609	1.511	1.359	1.272		
.6500	1.516	1.791	1.092	1.063		
.6800	1.504	1.406	1.337	1.262		
.6700	1.544	1.776	1.868	2.029		
.6800	1.434	1.769	1.332	1.271		
.6900	1.452	1.710	1.822	1.996		
.7100	1.529	1.323	1.299	1.254		
.7200	1.452	1.760	1.859	1.994		
.7300	1.438	1.747	1.851	1.980		
.7400	1.258	1.269	1.250	1.212		
.7500	1.428	1.720	1.843	1.966		
.7600	1.296	1.209	1.235	1.172		
.7800	1.385	1.631	1.797	1.924		
.8100	1.393	1.620	1.793	1.915		
.8300	1.341	1.608	1.755	1.918		
.8300	1.396	1.609	1.792	1.916		
.8533	1.113	1.137	1.141	1.131		
.8733	1.112	1.108	1.178	1.910		
.9033	1.083	1.083	1.135	1.908		
.9033	1.447	1.571	1.759	1.890		
.9133	1.050	1.072	1.053	1.077		
.9333	1.508	1.581	1.749	1.900		
.9433	1.012	1.032	1.040	1.038		
.9633	1.573	1.612	1.755	1.887		
.9733	.973	.980	.984	.978		
.9833	1.872	1.603	1.736	1.927		
.9933	.944	.947	.940	.940		
1.0033	1.573	1.888	1.723	1.955		
1.0133	1.505	1.53	1.678	1.973		
1.0233	.989	.980	.998	.988		
1.0333	1.493	1.506	1.647	1.826		
1.0433	1.116	1.124	1.158	1.178		
1.0533	1.400	1.494	1.699	1.900		
1.0633	1.200	1.391	1.493	1.569		

TABLE 7. - PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.  
 $(\delta_1=0^\circ; \delta_2=-20^\circ)$

$\frac{X}{C}$ (a)	M=0.60					
	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	1.475	1.908	1.706	2.269	2.262	2.167
.0100	1.111	2.322	2.567	3.226	2.005	1.803
.0200	1.263	1.761	2.548	4.56	3.86	3.72
.0300	1.170	1.669	2.718	1.910	1.993	1.791
.0400	1.245	1.911	1.698	5.582	4.489	4.38
.0500	1.183	1.523	1.867	1.823	1.984	1.772
.0600	1.263	1.994	1.804	6.77	5.70	5.52
.0700	1.205	1.435	1.756	1.781	1.956	1.788
.0800	1.111	1.107	1.949	8.32	7.42	6.76
.0900	1.285	1.744	1.644	1.719	1.921	1.775
.1000	1.297	1.146	1.017	9.13	8.33	7.78
.1100	1.227	1.365	1.545	1.661	1.902	1.769
.1200	1.305	1.185	1.034	9.90	9.09	8.90
.1300	1.231	1.334	1.454	1.607	1.889	1.755
.1400	1.306	1.208	1.150	1.041	1.000	9.67
.1500	1.117	1.277	1.373	5.44	1.866	1.735
.1600	1.300	1.222	1.144	1.092	1.061	1.049
.1700	1.163	1.214	1.306	1.497	1.845	1.727
.1800	1.285	1.215	1.148	1.108	1.098	1.093
.1900	1.117	1.171	1.170	1.108	1.822	1.726
.2000	1.289	1.211	1.157	1.125	1.126	1.128
.2100	1.088	1.140	1.244	1.455	1.828	1.735
.2200	1.280	1.211	1.160	1.137	1.146	1.157
.2300	1.090	1.141	1.237	1.430	1.811	1.718
.2400	1.082	1.138	1.234	1.460	1.150	1.709
.2500	1.258	1.192	1.151	1.133	1.791	1.705
.2600	1.063	1.119	1.240	1.407	1.161	1.199
.2700	1.236	1.179	1.144	1.133	1.771	1.703
.2800	1.019	1.068	1.171	1.362	1.751	1.689
.2900	1.211	1.172	1.142	1.131	1.179	1.205
.3000	1.001	1.040	1.140	1.331	1.742	1.688
.3100	1.241	1.195	1.140	1.130	1.244	1.284
.3200	.873	.993	1.102	1.300	1.707	1.679
.3300	1.264	1.216	1.198	1.212	1.302	1.355
.3400	.932	.961	1.083	1.269	1.677	1.657
.3500	1.113	1.249	1.232	1.269	1.374	1.435
.3600	.886	.932	1.057	1.250	1.686	1.667
.3700	1.312	1.285	1.277	1.326	1.481	1.542
.3800	.963	.896	1.035	1.257	1.651	1.639
.3900	1.380	1.359	1.365	1.457	1.673	1.742
.4000	.983	.937	1.068	1.157	1.619	1.658
.4100	.993	1.523	1.514	1.713	2.052	1.658
.4200	1.003	.765	.836	1.574	1.188	1.619
.4300	1.133	.790	.851	.991	1.196	1.657
.4400	1.023	1.269	1.233	1.288	1.935	1.249
.4500	1.033	1.047	1.115	1.237	1.681	1.658
.4600	1.222	1.183	1.176	1.304	1.762	1.858
.4700	1.053	1.018	1.024	1.199	1.637	1.651
.4800	1.058	1.163	1.157	1.145	1.232	1.694

$\frac{X}{C}$ (a)	M=0.80					
	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	1.520	1.780	1.745	1.526	1.978	2.131
.0100	1.184	2.307	2.772	2.128	2.037	1.886
.0200	1.322	1.847	1.624	1.507	2.444	1.414
.0300	1.256	1.893	2.587	2.194	2.041	1.920
.0400	1.311	1.990	1.732	1.777	2.550	1.480
.0500	1.268	1.651	2.291	2.181	2.050	1.896
.0600	1.330	1.080	1.877	2.740	2.036	1.860
.0700	1.290	1.560	1.994	2.133	2.004	1.880
.0800	1.366	1.188	1.012	1.895	2.000	1.722
.0900	1.308	1.515	1.802	2.076	1.978	1.869
.1000	1.388	1.233	1.098	1.989	1.998	1.820
.1100	1.303	1.493	1.671	2.015	1.946	1.859
.1200	1.404	1.285	1.164	1.075	1.997	1.929
.1300	1.339	1.466	1.571	1.974	1.918	1.839
.1400	1.407	1.303	1.200	1.133	1.068	1.010
.1500	1.303	1.399	1.485	1.922	1.886	1.830
.1600	1.402	1.315	1.235	1.180	1.132	1.080
.1700	1.261	1.339	1.420	1.892	1.861	1.827
.1800	1.371	1.309	1.237	1.195	1.168	1.129
.1900	1.218	1.283	1.378	1.155	1.842	1.826
.2000	1.369	1.304	1.241	1.210	1.189	1.154
.2100	1.165	1.239	1.326	1.132	1.135	1.124
.2200	1.363	1.306	1.245	1.216	1.206	1.177
.2300	1.180	1.246	1.339	1.131	1.129	1.117
.2400	1.307	1.324	1.283	1.212	1.202	1.179
.2500	1.146	1.209	1.312	1.173	1.155	1.121
.2600	1.307	1.265	1.270	1.171	1.150	1.121
.2700	1.095	1.158	1.270	1.171	1.150	1.121
.2800	1.088	1.147	1.259	1.169	1.147	1.121
.2900	1.276	1.243	1.207	1.104	1.111	1.119
.3000	1.069	1.123	1.239	1.173	1.167	1.173
.3100	1.303	1.272	1.241	1.126	1.166	1.159
.3200	1.021	1.088	1.209	1.122	1.145	1.189
.3300	1.277	1.263	1.208	1.130	1.130	1.130
.3400	.986	1.052	1.183	1.155	1.129	1.170
.3500	1.336	1.315	1.292	1.115	1.156	1.165
.3600	1.094	1.019	1.159	1.155	1.121	1.175
.3700	1.364	1.355	1.332	1.168	1.129	1.143
.3800	.904	.988	1.117	1.125	1.102	1.164
.3900	1.419	1.411	1.402	1.465	1.437	1.450
.4000	.885	.942	1.061	1.140	1.140	1.140
.4100	1.534	1.539	1.548	1.558	1.555	1.770
.4200	.6834	.938	1.087	1.172	1.671	1.751
.4300	1.013	.8550	1.100	1.188	1.689	1.760
.4400	1.307	1.344	1.346	1.385	1.353	1.779
.4500	.948	1.011	1.146	1.102	1.846	1.949
.4600	1.341	1.321	1.319	1.319	1.846	1.949
.4700	1.077	1.135	1.196	1.151	1.685	1.762
.4800	1.309	1.303	1.298	1.437	1.726	1.827

$\frac{X}{C}$ (a)	M=0.90					
	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	1.562	1.720	1.701	1.359		
.0100	1.234	2.193	2.552	2.614		
.0200	1.388	2.918	2.712	2.580		
.0300	1.327	2.124	2.452	2.574		
.0400	1.311	1.931	2.460	2.578		
.0500	1.340	1.789	2.371	2.556		
.0600	1.439	1.142	1.955	2.810		
.0700	1.250	1.650	2.279	2.457		
.0800	1.487	1.260	1.094	9.67		
.0900	1.398	1.622	2.079	2.287		
.1000	1.477	1.317	1.173	1.054		
.1100	1.445	1.633	1.872	2.114		
.1200	1.562	1.385	1.254	1.148		
.1300	1.482	1.661	1.890	2.114		
.1400	1.261	1.333	1.564	2.113		
.1500	1.440	1.660	1.812	1.913		
.1600	1.614	1.433	1.348	2.266		
.1700	1.373	1.501	1.766	1.880		
.1800	1.502	1.411	1.350	1.283		
.1900	1.303	1.385	1.671	1.845		
.2000	1.466	1.398	1.357	1.299		
.2100	1.261	1.333	1.594	1.816		
.2200	1.441	1.392	1.359	1.311		
.2300	1.264	1.319	1.549	1.822		
.2400	1.723	1.288	1.396	1.748		
.2500	1.414	1.367	1.332	1.293		
.2600	1.231	1.279	1.482	1.794		
.2700	1.379	1.340	1.337	1.285		
.2800	1.441	1.319	1.368	1.724		
.2900	1.366	1.313	1.290	1.274		
.3000	1.189	1.189	1.342	1.704		
.3100	1.401	1.349	1.325	1.317		
.3200	1.091	1.147	1.301	1.658		
.3300	1.047	1.047	1.301	1.658		
.3400	1.047	1.166	1.272	1.634		
.3500	1.441	1.385	1.361	1.382		
.3600	1.009	1.088	1.253	1.608		
.3700	1.473	1.419	1.385	1.426		
.3800	.967	.963	1.223	1.573		
.3900	1.529	1.473	1.437	1.501		
.4000	1.628	1.024	1.172	1.501		
.4100	.993	1.586	1.537	1.657		
.4200	.904	1.028	1.201	1.543		
.4300	1.013	1.033	1.192	1.543		
.4400	1.023	1.411	1.385	1.700		
.4500	.999	.979	1.192	1.549		
.4600	1.431	1.398	1.375	1.697		
.4700	1.053	1.194	1.330	1.529		
.4800	1.458	1.394	1.344	1.615		

M=0.93						
$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000			1.972	1.270		
.0100			2.476	2.468		
.0200			1.727	2.601		
.0300			2.401	2.477		
.0400			1.875	2.741		
.0500			2.329	2.475		
.0600			2.066	2.437		
.0700			2.240	2.414		
.0800			1.103	2.990		
.0900			2.174	2.567		
.1000			1.187	2.561		
.1100			1.858	2.278		
.1200			1.275	1.178		
.1300			1.901	2.328		
.1400			1.329	1.245		
.1500			1.667	2.051		
.1600			1.374	1.365		
.1700			1.033	1.998		
.1800			1.382	1.312		
.1900			1.784	1.948		
.2000			1.305	1.324		
.2100			1.731	1.903		
.2200			1.387	1.336		
.2300			1.744	1.917		
.2400			1.717	1.898		
.2500			1.362	1.318		
.2600			1.678	1.882		
.2700			1.339	1.306		
.2800			1.575	1.819		
.2900			1.528	1.789		
.3000			1.315	1.287		
.3100			1.488	1.757		
.3200			1.351	1.330		
.3300			1.416	1.679		
.3400			1.376	1.357		
.3500			1.372	1.610		
.3600			1.401	1.387		
.3700			1.334	1.365		
.3800			1.434	1.431		
.3900			1.303	1.514		
.4000			1.457	1.487		
.4100			1.277	1.464		
.4200			1.580	1.637		
.4300			1.284	1.455		
.4400			1.253	1.446		
.4500			1.423	1.828		
.4600			1.239	1.448		
.4700			1.421	1.775		
.4800			1.280	1.502		
.4900			1.404	1.686		

TABLE 8. - PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.  
 $(\delta_f=10^\circ, \delta_r=0^\circ)$

**M = 0.60**

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
0.0000	1.463	1.073	1.652	2.1412	2.169	1.959
0.0100	1.319	2.587	2.1255	3.215	2.1003	1.879
0.0200	1.169	2.692	2.1515	2.138	1.378	1.371
0.0400	1.322	1.837	2.138	2.174	2.005	1.073
0.0600	1.192	1.845	2.659	2.540	1.460	1.418
0.0800	1.316	1.646	2.150	2.020	1.578	1.880
0.1000	1.348	1.481	1.866	1.781	1.912	1.056
0.1500	1.331	1.548	2.039	1.944	1.954	1.070
0.2133	1.244	1.030	1.883	1.781	1.694	1.647
0.2533	1.348	1.481	1.866	1.781	1.912	1.056
0.3033	1.243	1.068	1.930	1.846	1.769	1.736
0.3533	1.380	1.480	1.709	1.823	1.891	1.051
0.4167	1.286	1.078	1.983	1.904	1.91	1.003
0.4567	1.409	1.466	1.606	1.765	1.880	1.032
0.5067	1.190	1.066	1.992	1.933	1.892	1.072
0.5567	1.422	1.449	1.535	1.700	1.862	1.835
0.5867	1.243	1.043	1.981	1.913	1.843	1.007
0.6300	1.420	1.438	1.493	1.654	1.858	1.817
0.6500	1.081	1.002	1.947	1.921	1.914	1.914
0.7000	1.413	1.421	1.466	1.629	1.843	1.807
0.8000	1.053	1.979	1.934	1.914	1.915	1.917
0.9000	1.457	1.453	1.489	1.626	1.851	1.813
1.0000	1.008	1.451	1.445	1.450	1.818	1.805
1.1000	1.456	1.449	1.446	1.582	1.806	1.802
1.2000	1.456	1.456	1.456	1.846	1.859	1.871
1.3000	1.125	1.463	1.442	1.569	1.803	1.801
1.4000	1.587	1.818	1.795	1.786	1.803	1.812
1.5000	1.633	1.555	1.467	1.544	1.782	1.798
1.6000	1.810	1.633	1.442	1.569	1.758	1.796
1.7000	1.496	1.800	1.778	1.768	1.786	1.806
1.8000	1.902	1.442	1.406	1.508	1.748	1.778
1.8533	1.347	1.859	1.840	1.871	1.871	1.871
1.8733	1.941	1.322	1.334	1.471	1.728	1.764
1.8833	1.304	1.899	1.876	1.888	1.925	1.958
1.9033	1.026	1.922	1.926	1.926	1.926	1.926
1.9133	1.253	1.928	1.908	1.932	1.981	1.017
1.9333	1.992	1.922	1.925	1.422	1.697	1.742
1.9433	1.943	1.950	1.940	1.940	1.034	1.080
1.9633	1.183	1.183	1.228	1.265	1.997	1.997
1.9733	1.188	1.985	1.975	1.020	1.097	1.154
1.9833	1.034	1.035	1.203	1.376	1.656	1.727
1.9933	1.164	1.164	1.008	1.067	1.172	1.255
1.0033	1.156	1.135	1.176	1.163	1.693	1.725
1.0133	1.160	1.129	1.180	1.372	1.684	1.724
1.0233	1.160	1.160	1.160	1.095	1.640	1.699
1.0333	1.130	1.113	1.163	1.366	1.709	1.718
1.0433	1.069	1.052	1.064	1.196	1.404	1.449
1.0533	1.053	1.053	1.053	1.122	1.122	1.122
1.0583	1.091	1.089	1.122	1.310	1.602	1.679

**M = 0.80**

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
0.0000	1.508	1.808	1.725	1.647	1.954	2.055
0.0100	1.267	2.493	2.618	2.228	2.049	1.934
0.0200	1.267	2.493	2.618	2.228	2.049	1.934
0.0400	1.325	2.074	2.750	2.496	2.440	1.405
0.0600	1.227	2.941	2.750	2.221	2.065	1.948
0.0800	1.330	1.730	2.540	2.206	2.072	1.946
0.1000	1.304	1.053	2.844	2.716	2.680	1.542
0.1500	1.356	1.648	2.739	2.157	2.026	1.903
0.2133	1.230	1.122	2.792	2.860	2.769	1.693
0.2533	1.386	1.607	1.957	2.113	2.002	1.892
0.3033	1.338	1.153	1.033	1.940	1.855	1.778
0.3533	1.433	1.607	1.819	2.062	1.975	1.886
0.4167	1.309	1.179	1.080	1.001	1.935	1.866
0.4567	1.466	1.601	1.714	2.019	1.950	1.879
0.5067	1.262	1.164	1.089	1.030	1.978	1.920
0.5567	1.480	1.574	1.663	1.973	1.931	1.869
0.5867	1.205	1.135	1.058	1.058	1.999	1.950
0.6300	1.489	1.556	1.634	1.935	1.899	1.866
0.6500	1.130	1.080	1.038	1.015	1.987	1.953
0.7000	1.482	1.538	1.598	1.907	1.890	1.864
0.8000	1.094	1.016	1.003	1.003	1.982	1.955
0.9000	1.507	1.559	1.616	1.926	1.897	1.865
1.0000	1.041	1.006	1.007	1.877	1.877	1.877
1.1000	1.549	1.571	1.578	1.867	1.865	1.854
1.2000	1.979	1.950	1.933	1.929	1.915	1.897
1.3000	1.856	1.856	1.856	1.856	1.856	1.856
1.4000	1.898	1.898	1.898	1.898	1.898	1.898
1.5000	1.702	1.692	1.692	1.692	1.692	1.692
1.6000	1.673	1.673	1.673	1.673	1.673	1.673
1.7000	1.678	1.678	1.678	1.678	1.678	1.678
1.8000	1.583	1.527	1.502	1.795	1.831	1.850
1.8533	1.229	1.914	1.906	1.922	1.924	1.916
1.8733	1.428	1.392	1.392	1.764	1.815	1.841
1.8833	1.965	1.955	1.949	1.977	1.985	1.978
1.9033	1.353	1.333	1.335	1.747	1.801	1.838
1.9133	1.939	1.939	1.939	1.939	1.939	1.939
1.9333	1.929	1.929	1.929	1.726	1.793	1.836
1.9433	1.026	1.018	1.025	1.080	1.097	1.102
1.9633	1.987	1.983	1.984	1.703	1.768	1.821
1.9733	1.050	1.051	1.052	1.052	1.052	1.052
1.9833	1.024	1.020	1.016	1.681	1.766	1.831
1.9933	1.076	1.083	1.084	1.197	1.240	1.286
1.0033	1.198	1.198	1.198	1.198	1.198	1.198
1.0133	1.192	1.210	1.206	1.685	1.769	1.824
1.0233	1.060	1.076	1.106	1.241	1.284	1.304
1.0333	1.161	1.194	1.277	1.681	1.773	1.833
1.0433	1.098	1.128	1.173	1.383	1.445	1.474
1.0533	1.126	1.175	1.249	1.641	1.741	1.809
1.0583	1.136	1.186	1.263	1.605	1.707	1.773

**M = 0.90**

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
0.0000	1.552	1.711	1.7017	1.384		
0.0100	1.252	2.252	2.573	2.505		
0.0200	1.354	2.171	2.511	2.500		
0.0400	1.359	1.034	1.849	2.696		
0.0600	1.364	1.943	2.437	2.156		
0.0800	1.404	1.115	1.943	2.791		
0.1000	1.397	1.689	2.339	2.214		
0.1500	1.448	1.225	2.074	2.346		
0.2133	1.439	1.678	2.261	2.198		
0.2533	1.465	1.259	1.142	1.018		
0.3033	1.501	1.691	1.913	2.110		
0.3533	1.453	1.292	1.194	1.084		
0.4167	1.563	1.729	1.946	2.070		
0.4567	1.382	1.277	1.204	1.114		
0.5067	1.578	1.759	1.949	2.006		
0.5567	1.289	1.229	1.164	1.115		
0.6300	1.534	1.777	1.928	1.970		
0.6500	1.194	1.165	1.133	1.085		
0.7000	1.513	1.748	1.900	1.953		
0.8000	1.517	1.723	1.889	1.945		
0.9000	1.088	1.077	1.065	1.036		
1.0000	1.556	1.735	1.897	1.931		
1.1000	1.558	1.765	1.889	1.923		
1.2000	1.025	1.014	1.008	0.987		
1.3000	1.605	1.728	1.898	1.919		
1.4000	1.253	1.939	1.933	1.912		
1.5000	2.182	2.014	2.076	1.903		
1.6000	1.932	1.916	1.912	1.897		
1.7000	2.137	1.688	1.837	1.870		
1.8000	1.974	1.970	1.977	1.976		
1.8533	1.698	1.572	1.715	1.830		
1.8733	1.006	1.013	1.027	1.031		
1.8833	1.360	1.523	1.694	1.828		
1.9033	1.043	1.050	1.068	1.080		
1.9133	1.452	1.489	1.694	1.800		
1.9333	1.076	1.087	1.113	1.124		
1.9433	1.344	1.455	1.667	1.781		
1.9633	1.105	1.121	1.153	1.191		
1.9733	1.300	1.427	1.631	1.745		
1.9833	1.135	1.161	1.204	1.258		
1.9933	1.252	1.416	1.586	1.774		
1.0033	1.013	1.403	1.569	1.749		
1.0133	1.105	1.158	1.206	1.290		
1.0233	1.208	1.381	1.518	1.769		
1.0333	1.141	1.231	1.295	1.431		
1.0433	1.189	1.338	1.464	1.713		
1.0533	1.199	1.315	1.415	1.663		

$M = 0.93$

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	1.588	1.692	1.956			
0.0100	1.275	2.154	2.482			
0.0200	1.435	2.976	2.746			
0.0400	1.387	2.082	2.404			
0.0600	1.420	1.101	1.896			
0.0800	1.405	1.844	2.335			
0.1000	1.458	1.186	1.906			
0.1500	1.443	1.711	2.253			
0.2133	1.536	1.308	1.121			
0.2533	1.484	1.723	2.200			
0.3033	1.567	1.357	1.194			
0.3533	1.547	1.745	1.886			
0.4167	1.609	1.426	1.240			
0.4567	1.626	1.786	1.941			
0.5067	1.643	1.390	1.189			
0.5567	1.673	1.799	1.982			
0.5867	1.644	1.324	1.147			
0.6307	1.707	1.816	1.909			
0.6500	1.329	1.241	1.192			
0.6700	1.699	1.815	1.335			
0.6800	1.230	1.179	1.189			
0.6900	1.630	1.770	1.988			
0.7100	1.157	1.147	1.121			
0.7200	1.712	1.804	1.914			
0.7300	1.723	1.807	1.919			
0.7400	1.702	1.079	1.061			
0.7500	1.733	1.819	1.917			
0.7700	1.049	1.002	1.081			
0.7800	1.761	1.888	1.979			
0.8100	2.142	2.235	2.297			
0.8200	1.022	0.977	0.961			
0.8307	2.017	2.208	2.277			
0.8533	1.031	1.036	1.030			
0.8733	1.980	1.958	2.247			
0.8833	1.061	1.08	1.083			
0.9033	1.989	1.813	2.060			
0.9133	1.099	1.127	1.132			
0.9333	1.658	1.693	1.901			
0.9433	1.135	1.181	1.183			
0.9633	1.561	1.586	1.806			
0.9733	1.169	1.218	1.240			
0.9833	1.494	1.577	1.585			
0.9933	1.207	1.268	1.299			
1.0033	1.497	1.558	1.750			
1.0133	1.473	1.556	1.769			
1.0233	1.277	1.277	1.314			
1.0333	1.448	1.574	1.800			
1.0433	1.300	1.378	1.444			
1.0533	1.397	1.577	1.688			
1.0583	1.374	1.516	1.702			

TABLE 9. - PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.  
 $(\delta_x = 10^\circ; \delta_y = 10^\circ)$

M=0.60						
$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.4445	1.161	1.706	2.285	2.198	1.932
.0100	1.137	2.607	2.360	2.630	2.019	1.867
.0200	1.081	1.685	1.496	2.414	1.377	1.365
.0400	1.1314	1.924	2.383	2.385	2.018	1.865
.0600	1.118	1.842	2.642	1.585	1.459	1.406
.0800	1.1290	1.705	2.894	2.101	1.998	1.869
.1000	1.148	1.929	2.737	2.013	1.537	1.476
.1500	1.1300	1.553	2.172	2.012	1.971	1.826
.2133	1.180	1.032	1.867	1.757	1.690	1.626
.2533	1.1321	1.528	1.997	1.955	1.933	1.845
.3033	1.180	1.055	1.924	1.830	1.768	1.711
.3533	1.1328	1.522	1.821	1.931	1.915	1.834
.4167	1.165	1.082	1.965	1.893	1.843	1.793
.4567	1.1379	1.519	1.668	1.898	1.909	1.824
.5067	1.130	1.070	1.970	1.908	1.879	1.844
.5567	1.1399	1.508	1.559	1.812	1.891	1.808
.5867	1.1077	1.044	1.957	1.786	1.899	1.873
.6300	1.1458	1.444	1.510	1.788	1.872	1.795
.6800	1.1022	1.935	1.924	1.893	1.887	1.867
.7300	1.1489	1.446	1.498	1.755	1.857	1.790
.7800	.996	.912	.908	.884	.888	.878
.8300	1.1426	1.438	1.493	1.753	1.852	1.785
.8800	1.145	.867	.870	.849	.862	.846
.9300	1.1464	1.464	1.492	1.719	1.832	1.778
.9800	1.1471	1.468	1.486	1.702	1.822	1.772
1.0300	1.142	.814	.812	.812	.827	.813
1.0800	1.1498	1.491	1.493	1.692	1.819	1.771
1.1300	.791	.744	.756	.749	.767	.760
1.1800	1.1618	1.590	1.528	1.663	1.798	1.763
1.2300	1.1340	1.139	1.160	1.150	1.178	1.159
1.2800	.762	.722	.737	.734	.752	.750
1.3300	1.1550	1.506	1.484	1.627	1.775	1.752
1.3833	.853	.769	.794	.785	.825	.822
1.4333	1.1427	1.386	1.409	1.585	1.753	1.745
1.4833	.845	.796	.814	.826	.866	.868
1.5333	1.1381	1.328	1.367	1.557	1.744	1.732
1.5833	.913	.809	.834	.837	.908	.913
1.6333	1.1348	1.291	1.339	1.534	1.735	1.729
1.6833	.853	.815	.843	.870	.929	.941
1.7333	1.1331	1.268	1.322	1.509	1.715	1.713
1.7833	.973	.802	.829	.872	.934	.951
1.8333	1.1322	1.259	1.306	1.481	1.688	1.709
1.8833	.794	.765	.791	.842	.914	.924
1.9333	1.1033	1.263	1.312	1.485	1.763	1.750
1.9833	1.1013	1.269	1.278	1.486	1.721	1.717
1.0233	.860	.830	.861	.938	1.051	1.058
1.0733	1.104	1.246	1.210	1.413	1.728	1.715
1.0433	.947	.941	.974	1.100	1.262	1.269
1.0533	1.1070	1.105	1.153	1.399	1.665	1.679
1.0583	1.1076	1.066	1.103	1.301	1.539	1.571

M=0.80						
$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.507	1.841	1.785	1.561	1.799	1.993
.0100	1.1316	2.521	2.958	2.542	2.093	1.885
.0200	1.1234	1.788	1.594	1.493	1.440	1.392
.0400	1.1350	2.165	2.895	2.241	2.105	1.889
.0600	1.1254	1.932	1.740	1.623	1.533	1.445
.0800	1.1345	1.757	2.722	2.240	2.111	1.894
.1000	1.1287	1.009	1.835	1.709	1.618	1.516
.1500	1.1366	1.661	2.564	2.001	2.018	1.976
.2133	1.107	1.612	1.622	1.563	1.558	1.534
.2533	1.1403	1.624	1.888	2.125	2.036	1.864
.3033	1.1315	1.146	1.753	2.029	1.951	1.745
.3533	1.1451	1.660	1.667	1.922	1.925	1.825
.4167	1.1488	1.626	1.656	2.027	1.983	1.842
.4567	1.1244	1.147	1.708	1.915	1.961	1.870
.5067	1.1242	1.612	1.622	1.946	1.915	1.822
.5567	1.1180	1.115	1.054	1.915	1.979	1.894
.6300	1.1519	1.596	1.618	1.910	1.930	1.822
.6800	1.1001	1.974	1.910	1.917	1.913	1.823
.7300	1.1068	1.028	1.889	1.917	1.959	1.892
.7800	1.1494	1.567	1.595	1.917	1.917	1.821
.8300	1.1001	.974	.940	.940	.923	.861
.8800	1.1574	1.625	1.633	1.893	1.906	1.818
.9300	1.1584	1.629	1.631	1.876	1.898	1.813
.9800	1.1039	1.992	1.893	1.904	1.976	1.826
1.0300	1.1620	1.658	1.639	1.870	1.896	1.820
1.0800	.864	.845	.821	.821	.817	.765
1.1300	1.1776	1.778	1.681	1.842	1.890	1.819
1.1800	1.1351	1.155	1.155	1.747	1.877	1.812
1.2300	.834	.822	.801	.808	.802	.755
1.2800	1.1736	1.658	1.579	1.807	1.867	1.810
1.3300	.875	.899	.875	.875	.874	.824
1.3833	1.1570	1.506	1.472	1.771	1.854	1.801
1.4333	.899	.893	.883	.905	.920	.871
1.4833	1.1499	1.442	1.422	1.747	1.838	1.798
1.5333	.903	.809	.809	.828	.852	.808
1.5833	1.1446	1.400	1.396	1.732	1.832	1.795
1.6333	.915	.913	.914	.955	.982	.940
1.6833	1.1403	1.369	1.366	1.709	1.819	1.787
1.7333	.940	.898	.902	.961	.985	.945
1.7833	1.1393	1.340	1.344	1.676	1.786	1.774
1.8333	.865	.870	.867	.926	.952	.917
1.8833	1.1409	1.328	1.344	1.758	1.837	1.792
1.9333	1.1324	1.296	1.328	1.706	1.818	1.783
1.9833	.919	.930	.937	1.027	1.060	1.024
1.0233	1.1262	1.269	1.262	1.596	1.806	1.780
1.0733	1.1033	1.088	1.082	1.527	1.800	1.743
1.0433	1.1217	1.252	1.289	1.642	1.783	1.769
1.0533	1.1173	1.209	1.244	1.511	1.719	1.682

M=0.90						
$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.548	.724	1.5020	1.343	1.588	1.972
.0100	1.1281	2.270	2.588	2.588	2.588	2.588
.0200	1.1340	1.893	2.506	2.590	2.590	2.590
.0400	1.1363	2.189	2.506	2.590	2.590	2.590
.0600	1.1356	1.026	1.837	2.703	2.703	2.703
.0800	1.1361	2.008	2.430	2.486	2.486	2.486
.1000	1.1387	1.104	1.926	2.795	2.795	2.795
.1500	1.1400	1.690	2.326	2.364	2.364	2.364
.2133	1.1442	1.215	1.054	2.442	2.442	2.442
.2533	1.1451	1.215	1.054	2.442	2.442	2.442
.3033	1.1454	1.254	1.127	2.019	2.019	2.019
.3533	1.1508	1.679	1.910	2.162	2.162	2.162
.4167	1.1434	1.283	1.177	1.085	1.085	1.085
.4567	1.1568	1.719	1.938	2.084	2.084	2.084
.5067	1.1360	1.258	1.177	1.106	1.106	1.106
.5567	1.1298	1.744	1.909	2.001	2.001	2.001
.6300	1.1531	1.777	1.153	1.05	1.05	1.05
.6800	1.1556	1.758	1.876	1.969	1.969	1.969
.7300	1.1467	1.136	1.100	1.067	1.067	1.067
.7800	1.1531	1.777	1.857	1.950	1.950	1.950
.8300	1.1123	1.104	1.076	1.049	1.049	1.049
.8800	1.1494	1.683	1.822	1.937	1.937	1.937
.9300	1.1052	1.039	1.024	1.002	1.002	1.002
.9800	1.1580	1.756	1.871	1.937	1.937	1.937
1.0300	1.1580	1.752	1.869	1.928	1.928	1.928
1.0800	.983	.976	.963	.948	.948	.948
1.1300	1.1597	1.756	1.878	1.926	1.926	1.926
1.1800	.911	.901	.886	.876	.876	.876
1.2300	1.1721	1.836	1.960	1.936	1.936	1.936
1.2800	2.1223	2.267	2.314	1.989	1.989	1.989
1.3300	.886	.875	.863	.858	.858	.858
1.3800	2.145	2.208	2.245	1.953	1.953	1.953
1.4300	.915	.912	.916	.916	.916	.916
1.4800	1.1985	1.760	1.927	1.895	1.895	1.895
1.5300	.944	.942	.947	.954	.954	.954
1.5800	1.1770	1.659	1.788	1.870	1.870	1.870
1.6300	.956	.961	.967	.967	.967	.967
1.6800	1.1331	1.548	1.700	1.850	1.850	1.850
1.7300	.963	.967	.983	1.000	1.000	1.000
1.7800	1.1532	1.481	1.670	1.833	1.833	1.833
1.8300	.975	.958	.977	.997	.997	.997
1.8800	1.1460	1.450	1.655	1.816	1.816	1.816
1.9300	.926	.923	.940	.963	.963	.963
1.9800	1.1418	1.437	1.636	1.862	1.862	1.862
1.0300	1.1402	1.431	1.638	1.839	1.839	1.839
1.0800	.977	.990	1.015	1.054	1.054	1.054
1.1300	1.1361	1.431	1.614	1.834	1.834	1.834
1.1800	1.112	1.422	1.575	1.789	1.789	1.789
1.2300	1.1057	1.427	1.575	1.789	1.789	1.789
1.2800	1.1295	1.340	1.428	1.575	1.575	1.575

<sup>a</sup> Lower surface orifice is denoted by -.



TABLE 10. - PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.

 $(\delta_1=10^\circ; \delta_2=20^\circ)$ 

$\frac{x}{c}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
0.0000	1.4555	1.1655	1.7555	2.0433	2.2266	1.9222
0.0100	1.3666	2.6557	2.1379	2.1533	2.0388	1.8655
0.0200	1.0588	2.6558	1.4933	1.4111	1.3811	1.3633
0.0400	1.3329	1.9188	2.1397	2.1127	2.0355	1.8667
0.0600	1.1108	1.8112	1.6638	1.5229	1.4566	1.4066
0.0800	1.3304	1.7011	1.5114	1.2080	1.2026	1.0733
0.1000	1.1136	1.8994	2.1732	2.1615	2.1400	1.7722
0.1500	1.1308	1.5833	2.2118	2.0443	2.0000	1.8600
0.2000	1.1465	1.0000	2.1833	1.7655	1.5922	1.6511
0.2500	1.1655	1.0227	2.1833	2.0066	1.9644	1.8499
0.3000	1.1655	1.0227	1.9188	1.8334	1.7688	1.7055
0.3500	1.1362	1.5112	1.8833	1.5991	1.5511	1.5333
0.4000	1.1465	1.0445	1.9333	1.4922	1.4539	1.4779
0.4500	1.1390	1.5111	1.6662	1.9733	1.9444	1.8211
0.5000	1.1222	1.0334	1.9556	1.9066	1.8700	1.8255
0.5500	1.1410	1.4977	1.5666	1.9233	1.9277	1.8044
0.6000	1.1047	1.0066	1.9334	1.9088	1.8854	1.8544
0.6500	1.1422	1.5000	1.5529	1.9677	1.9011	1.7911
0.7000	1.1922	1.9533	1.0222	1.9811	1.8733	1.8400
0.7500	1.1430	1.4888	1.5109	1.8332	1.8822	1.7866
0.8000	1.1964	1.9333	1.8880	1.8711	1.8700	1.8455
0.8500	1.1426	1.4779	1.5033	1.8332	1.8811	1.7811
0.9000	1.1914	1.8855	1.8442	1.8332	1.8377	1.8211
0.9500	1.1487	1.5331	1.5224	1.7966	1.8666	1.7800
1.0000	1.1487	1.5334	1.5111	1.7833	1.8555	1.7699
1.0500	1.1487	1.5334	1.5111	1.7833	1.8555	1.7699
1.1000	1.1487	1.5334	1.5111	1.7833	1.8555	1.7699
1.1500	1.1487	1.5334	1.5111	1.7833	1.8555	1.7699
1.2000	1.1487	1.5334	1.5111	1.7833	1.8555	1.7699
1.2500	1.1487	1.5334	1.5111	1.7833	1.8555	1.7699
1.3000	1.1487	1.5334	1.5111	1.7833	1.8555	1.7699
1.3500	1.1487	1.5334	1.5111	1.7833	1.8555	1.7699
1.4000	1.1487	1.5334	1.5111	1.7833	1.8555	1.7699
1.4500	1.1487	1.5334	1.5111	1.7833	1.8555	1.7699
1.5000	1.1487	1.5334	1.5111	1.7833	1.8555	1.7699
1.5500	1.1487	1.5334	1.5111	1.7833	1.8555	1.7699
1.6000	1.1487	1.5334	1.5111	1.7833	1.8555	1.7699
1.6500	1.1487	1.5334	1.5111	1.7833	1.8555	1.7699
1.7000	1.1487	1.5334	1.5111	1.7833	1.8555	1.7699
1.7500	1.1487	1.5334	1.5111	1.7833	1.8555	1.7699
1.8000	1.1487	1.5334	1.5111	1.7833	1.8555	1.7699
1.8500	1.1487	1.5334	1.5111	1.7833	1.8555	1.7699
1.9000	1.1487	1.5334	1.5111	1.7833	1.8555	1.7699
1.9500	1.1487	1.5334	1.5111	1.7833	1.8555	1.7699
2.0000	1.1487	1.5334	1.5111	1.7833	1.8555	1.7699

$\frac{x}{c}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
0.0000	1.5011	1.8466	1.3077	1.6887	2.0115	2.0633
0.0100	1.3206	2.5507	2.9111	2.2322	2.0862	1.9544
0.0200	1.2166	1.7833	1.5889	1.4900	1.4332	1.4044
0.0400	1.3355	2.1800	2.8823	2.2330	2.1033	1.9666
0.0600	1.2388	1.9211	1.7755	1.6115	1.5233	1.4566
0.0800	1.3533	1.7449	2.6108	2.2211	2.1022	1.9588
0.1000	1.2259	1.0002	1.8822	1.7044	1.6077	1.5222
0.1500	1.3773	1.6655	2.2898	2.2898	2.1811	2.0533
0.2000	1.3000	1.1022	1.7633	1.8444	1.7500	1.7711
0.2500	1.4033	1.6300	1.9559	2.1277	2.0229	1.9144
0.3000	1.2899	1.1333	1.7007	1.9188	1.8332	1.7544
0.3500	1.4445	1.6222	1.8333	2.0822	2.0033	1.9044
0.4000	1.2733	1.1488	1.7047	1.9788	1.9004	1.8311
0.4500	1.4833	1.6822	1.7729	2.0411	1.9778	1.8977
0.5000	1.2877	1.0488	1.7047	1.9777	1.9400	1.8777
0.5500	1.5022	1.6100	1.6796	1.9955	1.9488	1.8889
0.6000	1.1556	1.0911	1.7024	1.9944	1.9500	1.8994
0.6500	1.5099	1.6000	1.6666	1.9955	1.9244	1.8779
0.7000	1.0766	1.0333	1.7024	1.9955	1.9300	1.8899
0.7500	1.1510	1.5566	1.6680	1.9923	1.9088	1.8766
0.8000	1.0411	1.0022	1.7024	1.9923	1.9244	1.8779
0.8500	1.1463	1.0022	1.7024	1.9923	1.9244	1.8779
0.9000	1.0733	1.9455	1.9122	1.9066	1.8888	1.8588
0.9500	1.1573	1.6444	1.6889	1.8899	1.8821	1.8711
1.0000	1.1573	1.6444	1.6889	1.8899	1.8821	1.8711
1.0500	1.1573	1.6444	1.6889	1.8899	1.8821	1.8711
1.1000	1.1573	1.6444	1.6889	1.8899	1.8821	1.8711
1.1500	1.1573	1.6444	1.6889	1.8899	1.8821	1.8711
1.2000	1.1573	1.6444	1.6889	1.8899	1.8821	1.8711
1.2500	1.1573	1.6444	1.6889	1.8899	1.8821	1.8711
1.3000	1.1573	1.6444	1.6889	1.8899	1.8821	1.8711
1.3500	1.1573	1.6444	1.6889	1.8899	1.8821	1.8711
1.4000	1.1573	1.6444	1.6889	1.8899	1.8821	1.8711
1.4500	1.1573	1.6444	1.6889	1.8899	1.8821	1.8711
1.5000	1.1573	1.6444	1.6889	1.8899	1.8821	1.8711
1.5500	1.1573	1.6444	1.6889	1.8899	1.8821	1.8711
1.6000	1.1573	1.6444	1.6889	1.8899	1.8821	1.8711
1.6500	1.1573	1.6444	1.6889	1.8899	1.8821	1.8711
1.7000	1.1573	1.6444	1.6889	1.8899	1.8821	1.8711
1.7500	1.1573	1.6444	1.6889	1.8899	1.8821	1.8711
1.8000	1.1573	1.6444	1.6889	1.8899	1.8821	1.8711
1.8500	1.1573	1.6444	1.6889	1.8899	1.8821	1.8711
1.9000	1.1573	1.6444	1.6889	1.8899	1.8821	1.8711
1.9500	1.1573	1.6444	1.6889	1.8899	1.8821	1.8711
2.0000	1.1573	1.6444	1.6889	1.8899	1.8821	1.8711

$\frac{x}{c}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
0.0000	1.5445	1.7055	1.0288	1.3677	1.4444	1.4444
0.0100	1.2737	2.2339	2.1843	2.1843	2.1843	2.1843
0.0200	1.3551	2.1599	2.0518	2.1508	2.1508	2.1508
0.0400	1.3413	1.9899	2.0331	2.0331	2.0331	2.0331
0.0600	1.3511	1.9899	2.1229	2.1229	2.1229	2.1229
0.0800	1.3396	1.0766	1.9200	1.7777	1.7777	1.7777
0.1000	1.3766	1.6449	2.1225	2.1225	2.1225	2.1225
0.1500	1.4336	1.1844	1.9045	1.9177	1.9177	1.9177
0.2000	1.4112	1.6334	2.1238	2.1238	2.1238	2.1238
0.2500	1.4453	1.2119	1.1114	1.9922	1.9922	1.9922
0.3000	1.4666	1.6440	1.9166	2.1177	2.1177	2.1177
0.3500	1.4223	1.2339	1.1556	1.0555	1.0555	1.0555
0.4000	1.5330	1.6778	1.9333	2.0666	2.0666	2.0666
0.4500	1.3477	1.2112	1.1554	1.0732	1.0732	1.0732
0.5000	1.3558	1.6977	1.9082	1.9833	1.9833	1.9833
0.5500	1.2445	1.1559	1.1266	1.0666	1.0666	1.0666
0.6000	1.5112	1.6977	1.9588	1.9444	1.9444	1.9444
0.6500	1.1466	1.0877	1.0668	1.0277	1.0277	1.0277
0.7000	1.5055	1.6555	1.9330	1.9233	1.9233	1.9233
0.7500	1.1098	1.0533	1.0442	1.0133	1.0133	1.0133
0.8000	1.4770	1.6177	1.9001	1.9100	1.9100	1.9100
0.8500	1.0222	1.9877	1.9877	1.9600	1.9600	1.9600
0.9000	1.5553	1.6933	1.9449	1.9022	1.9022	1.9022
0.9500	1.3458	1.6855	1.9442	1.9033	1.9033	1.9033
1.0000	1.5788	1.6992	1.9557	1.8944	1.8944	1.8944
1.0500	1.8884	1.8855	1.8855	1.8835	1.8835	1.8835
1.1000	1.7011	1.7888	1.9446	1.8866	1.8866	1.8866
1.1500	2.1889	2.2227	2.1307	1.9155	1.9155	1.9155
1.2000	1.8665	2.1817	1.9220	1.8022	1.8022	1.8022
1.2500	2.1116	2.1855	2.2664	1.9011	1.9011	1.9011
1.3000	1.8844	1.8444	1.8544	1.8511	1.8511	1.8511
1.3500	1.9550	1.8880	2.0777	1.8666	1.8666	1.8666
1.4000	1.9888	1.8660	1.9777	1.8788	1.8788	1.8788
1.4500	1.7449	1.7004	1.9880	1.8366	1.8366	1.8366
1.5000	1.8966	1.8662	1.8779	1.8855	1.8855	1.8855
1.5500	1.6699	1.6117	1.7770	1.8122	1.8122	1.8122
1.6000	1.8899	1.8449	1.9770	1.8777	1.8777	1.8777
1.6500	1.6639	1.5338	1.6881	1.7966	1.7966	1.7966
1.7000	1.8664	1.8009	1.9332	1.8411	1.8411	1.8411
1.7500	1.9833	1.4877	1.6266	1.7744	1.7744	1.7744
1.8000	1.8311	1.7633	1.7755	1.7877	1.7877	1.7877
1.8500	1.5066	1.4552	1.6088	1.8119	1.8119	1.8119
1.9000	1.4444	1.4444	1.5998	1.8177	1.8177	1.8177
1.9500	1.6588	1.6330	1.8552	1.8788	1.8788	1.8788
2.0000	1.4481	1.4338	1.5994	1.7933	1.7933	1.7933
2.0500	1.4030	1.4008	1.6030	1.7889	1.7889	1.7889
2.1000	1.4768	1.4339	1.5811	1.7800	1.7800	1.7800
2.1500	1.3663	1.3228	1.4413	1.5077	1.5077	1.5077

$M = 0.93$						
$\frac{x}{c}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.00000	1.571	1.697	1.967			
.01000	1.2882	2.234	2.494			
.02000	1.1385	.931	.784			
.04000	1.378	2.157	2.355			
.06000	1.1394	1.062	.870			
.08000	1.1390	2.011	2.361			
1.0000	1.125	1.140	1.52			
1.1500	1.123	1.1690	2.274			
.21333	1.1495	1.259	1.093			
.2333	1.1461	1.715	1.199			
.3033	1.125	1.1299	1.164			
.3533	1.1520	1.717	1.916			
.4167	1.1541	1.334	1.236			
.4567	1.186	1.735	1.285			
.5067	1.1483	1.301	1.211			
.5567	1.1635	1.747	1.986			
.5867	1.1296	1.236	1.183			
.6300	1.130	1.730	1.822			
.6500	1.1173	1.151	1.119			
.6700	1.1566	1.689	1.823			
.6800	1.130	1.12	1.091			
.6900	1.1568	1.675	1.805			
.7100	1.1055	1.044	1.030			
.7200	1.1674	1.75	1.865			
.7300	1.162	1.774	1.877			
.7400	.986	.975	.966			
.7500	1.633	1.772	1.866			
.7700	1.621	.900	.821			
.7800	1.720	1.648	1.944			
.8100	2.167	2.280	2.292			
.8200	.986	.863	.855			
.8300	2.086	2.250	2.252			
.8533	.901	.891	.892			
.8733	1.990	2.185	2.231			
.8833	.911	.908	.913			
.9033	.9813	1.946	2.166			
.9133	.913	.910	.923			
.9333	1.780	1.809	1.98			
.9433	.896	.894	.910			
.9633	1.725	1.715	1.976			
.9733	.857	.857	.870			
.9833	1.641	1.662	1.878			
.9933	.819	.809	.819			
1.0033	1.625	1.628	1.846			
1.0133	1.591	1.620	1.810			
1.0233	.900	.880	.901			
1.0333	1.600	1.618	1.831			
1.0433	1.087	1.072	1.108			
1.0537	1.577	1.620	1.819			
1.0583	1.416	1.449	1.529			

TABLE 11. - PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.

 $(\delta_f = 10^\circ; \delta_r = -10^\circ)$ 

M=0.60

$\frac{x}{c}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	.471	.925	1.988	2.452	2.419	2.182
0.0100	.253	.809	1.796	2.519	2.004	1.819
0.0200	.155	.846	1.524	2.487	1.381	1.366
0.0400	.040	.163	2.368	2.542	2.005	1.012
0.0600	.160	.930	2.667	2.539	2.466	1.420
0.0800	.266	1.475	2.086	2.246	2.001	1.823
0.1000	.189	1.044	1.760	1.640	1.555	1.494
0.1500	.259	1.409	1.912	2.032	1.373	1.818
0.2133	.215	1.111	1.894	1.785	1.714	1.645
0.2533	.283	1.391	1.758	1.961	1.934	1.801
0.3033	.213	1.141	.953	.864	.794	.734
0.3533	.319	1.389	1.637	1.941	1.915	1.800
0.4167	.209	1.145	1.007	1.930	1.878	1.823
0.4567	.333	1.399	1.866	1.915	1.811	1.789
0.5067	.180	1.130	1.015	.962	.926	.885
0.5567	.345	1.388	1.515	1.862	1.898	1.774
0.5867	.143	1.101	1.953	1.971	1.948	1.764
0.6300	.339	1.391	1.451	1.811	1.860	1.731
0.6500	.095	1.064	.988	.955	.951	.931
0.6700	.303	1.368	1.421	1.764	1.845	1.755
0.6900	.065	1.065	1.974	1.949	1.845	.937
0.7100	.329	1.370	1.411	1.730	1.828	1.746
0.7300	.023	.998	.950	.922	.940	.931
0.7500	.346	1.371	1.408	1.711	1.825	1.746
0.7700	.348	1.372	1.399	1.703	1.813	1.739
0.7900	.967	.945	.900	.887	.889	.894
0.8100	1.369	1.392	1.371	1.621	1.810	1.737
0.8300	.700	.871	.834	.821	.843	.840
0.8500	.453	1.458	1.398	1.642	1.796	1.731
0.8700	.514	1.504	1.396	1.612	1.774	1.727
0.8900	.181	1.876	1.123	1.829	1.827	1.827
0.9100	.359	1.357	1.332	1.582	1.761	1.714
0.9300	.942	.944	.913	.917	.947	.948
0.9533	.212	.821	.754	.752	.740	.748
0.9733	.883	.980	.927	.916	.916	.916
0.9933	.142	1.158	1.225	1.502	1.718	1.692
1.0133	.039	1.039	1.008	1.020	1.094	1.102
1.0333	.086	1.086	1.056	1.086	1.192	1.199
1.0533	.103	1.059	1.159	1.419	1.682	1.672
1.0733	.148	1.148	1.143	1.180	1.304	1.330
1.0933	.103	1.103	1.483	1.331	1.528	1.563
1.1133	.256	1.268	1.281	1.389	1.688	1.680
1.1333	.977	.977	1.117	1.389	1.688	1.680
1.1533	.101	1.101	1.158	1.888	1.528	1.612
1.1733	.154	1.154	1.158	1.888	1.528	1.555
1.1933	1.005	1.034	1.126	1.378	1.711	1.677
1.2133	1.105	1.113	1.167	1.304	1.600	1.612
1.2333	1.058	1.117	1.104	1.643	1.450	1.450
1.2533	.104	1.061	1.141	1.321	1.660	1.683

M=0.80

$\frac{x}{c}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	.522	.862	1.373	1.788	2.119	1.875
0.0100	.286	.844	1.894	2.218	2.049	1.637
0.0200	.189	.882	1.634	.502	.442	1.10
0.0400	.131	1.976	2.793	2.207	2.064	1.627
0.0600	1.278	.946	1.752	.627	.538	1.191
0.0800	1.326	1.724	2.583	2.208	2.073	1.610
0.1000	1.320	1.032	1.845	.720	.622	1.265
0.1500	1.340	1.633	2.326	2.169	2.028	1.607
0.2133	1.340	1.131	1.974	.867	.771	1.413
0.2533	1.373	1.588	1.880	2.113	2.004	1.599
0.3033	1.348	1.176	1.044	.293	.873	1.506
0.3533	1.418	1.583	1.761	2.037	1.978	1.588
0.4167	1.336	1.205	1.096	1.022	.946	.899
0.4567	1.446	1.581	1.657	2.034	1.952	1.577
0.5067	1.298	1.194	1.107	1.055	.994	.955
0.5567	1.462	1.552	1.610	1.966	1.924	1.568
0.5867	1.373	1.173	1.105	1.067	1.024	.962
0.6300	1.468	1.528	1.569	1.966	1.897	1.842
0.6500	1.181	1.121	1.079	1.054	1.022	.981
0.6700	1.458	1.502	1.535	1.897	1.879	1.841
0.6900	1.146	1.097	1.060	1.049	1.024	.968
0.7100	1.465	1.297	1.463	1.877	1.869	1.834
0.7300	1.096	1.056	1.052	1.021	1.001	.968
0.7500	1.478	1.509	1.521	1.861	1.864	1.833
0.7700	1.483	1.501	1.512	1.851	1.855	1.827
0.7900	1.033	.999	.974	.973	.959	.935
0.8100	1.483	1.515	1.504	1.845	1.857	1.833
0.8300	.958	.925	.902	.904	.893	.871
0.8500	1.593	1.563	1.558	1.820	1.848	1.829
0.8700	1.265	1.265	1.493	1.791	1.834	1.822
0.8900	.903	.884	.883	.883	.877	.859
0.9100	1.476	1.427	1.435	1.775	1.822	1.822
0.9300	1.020	.990	.984	.999	1.003	.987
0.9533	1.477	1.494	1.366	1.739	1.803	1.815
0.9733	1.055	1.036	1.031	1.054	1.066	1.050
0.9933	1.219	1.242	1.350	1.715	1.790	1.812
1.0133	1.112	1.092	1.093	1.131	1.150	1.137
1.0333	1.161	1.097	1.106	1.911	1.777	1.806
1.0533	1.168	1.154	1.166	1.215	1.245	1.230
1.0733	1.117	1.181	1.288	1.664	1.797	1.797
1.0933	1.210	1.239	1.264	1.337	1.389	1.382
1.1133	1.092	1.166	1.288	1.667	1.766	1.799
1.1333	1.365	1.384	1.442	1.561	1.650	1.650
1.1533	1.078	1.158	1.239	1.561	1.762	1.796
1.1733	1.239	1.262	1.321	1.515	1.618	1.626
1.1933	1.079	1.142	1.229	1.592	1.754	1.805
1.2133	1.215	1.215	1.288	1.564	1.701	1.788
1.2333	1.080	1.127	1.232	1.658	1.737	1.768
1.2533	1.120	1.163	1.282	1.621	1.780	1.841

M=0.90

$\frac{x}{c}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	.566	.750	1.096	1.478		
0.0100	1.297	2.216	2.563	2.569		
0.0200	1.368	2.130	2.495	2.589		
0.0400	1.368	1.038	.833	.701		
0.0600	1.393	1.904	2.416	2.476		
0.0800	1.401	1.115	.924	.790		
0.1000	1.418	1.705	2.321	2.336		
0.1500	1.455	1.228	1.058	1.937		
0.2133	1.453	1.690	2.210	2.389		
0.2533	1.484	1.279	1.129	1.022		
0.3033	1.513	1.680	1.912	2.134		
0.3533	1.503	1.319	1.187	1.094		
0.4167	1.576	1.701	1.944	2.047		
0.4567	1.437	1.306	1.203	1.125		
0.5067	1.621	1.727	1.873	1.956		
0.5567	1.346	1.371	1.189	1.132		
0.5867	1.626	1.748	1.851	1.949		
0.6300	1.256	1.203	1.152	1.111		
0.6500	1.568	1.734	1.839	1.935		
0.6700	1.209	1.170	1.126	1.099		
0.6900	1.577	1.733	1.843	1.931		
0.7100	1.153	1.124	1.096	1.070		
0.7300	1.602	1.753	1.853	1.934		
0.7500	1.600	1.750	1.847	1.923		
0.7700	1.088	1.062	1.039	1.020		
0.7900	1.620	1.786	1.844	1.925		
0.8100	1.013	.985	1.001	.999		
0.8300	1.732	1.737	1.724	1.920		
0.8500	1.190	1.552	1.591	1.913		
0.8700	.963	.962	.944	.927		
0.8900	1.734	1.493	1.558	1.692		
0.9100	1.066	1.055	1.048	1.040		
0.9300	1.483	1.433	1.342	1.664		
0.9533	1.116	1.108	1.100	1.099		
0.9733	1.413	1.453	1.555	1.844		
0.9933	1.175	1.171	1.174	1.174		
1.0133	1.355	1.444	1.561	1.955		
1.0333	1.304	1.456	1.551	1.809		
1.0533	1.329	1.346	1.365	1.371		
1.0733	1.751	1.455	1.545	1.903		
1.0933	1.475	1.543	1.573	1.579		
1.1133	1.234	1.415	1.504	1.789		
1.1333	1.210	1.411	1.507	1.782		
1.1533	1.341	1.399	1.458	1.704		
1.1733	1.177	1.380	1.472	1.757		
1.1933	1.238	1.361	1.433	1.517		
1.2133	1.174	1.321	1.396	1.764		
1.2333	1.179	1.333	1.409	1.840		

M=0.93

$\frac{x}{c}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	.575	.736	1.099			
0.0100	1.289	2.183	2.646			
0.0200	1.389	2.115	2.569			
0.0400	1.383	1.063	.928			
0.0600	1.387	1.950	2.490			
0.0800	1.444	1.150	1.028			
0.1000	1.412	1.675	2.386			
0.1500	1.457	1.261	1.181			
0.2133	1.448	1.702	2.320			
0.2533	1.528	1.320	1.1257			
0.3033	1.507	1.708	2.013			
0.3533	1.567	1.370	1.326			
0.4167	1.575	1.731	2.022			
0.4567	1.555	1.352	1.341			
0.5067	1.623	1.742	2.083			
0.5567	1.386	1.301	1.324			

TABLE 12. — PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.  
( $\delta_f 10^\circ$ ;  $\delta_s -20^\circ$ )

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	4.468	1.013	1.680	2.316	2.326	2.189
0.0100	1.176	2.472	2.333	2.745	2.034	1.826
0.0200	1.197	1.725	1.532	2.437	1.385	1.372
0.0400	1.212	1.744	1.163	2.208	1.023	1.823
0.0600	1.191	1.874	1.683	2.559	1.481	1.433
0.0800	1.207	1.957	1.280	1.928	1.014	1.835
0.1000	1.230	1.488	1.850	1.894	1.781	1.837
0.1200	1.233	1.061	1.907	1.798	1.728	1.664
0.1400	1.244	1.433	1.970	1.815	1.937	1.828
0.1600	1.228	1.088	1.968	1.876	1.813	1.757
0.1800	1.276	1.427	1.629	1.767	1.919	1.814
0.2000	1.238	1.116	1.022	1.545	1.898	1.847
0.2200	1.301	1.416	1.545	1.722	1.907	1.796
0.2400	1.398	1.115	1.039	1.974	1.945	1.911
0.2600	1.391	1.308	1.477	1.655	1.877	1.764
0.2800	1.174	1.105	1.044	1.900	1.980	1.957
0.3000	1.291	1.362	1.428	1.607	1.858	1.743
0.3200	1.120	1.068	1.018	1.986	1.982	1.955
0.3400	1.272	1.334	1.395	1.573	1.833	1.735
0.3600	1.104	1.055	1.007	1.978	1.986	1.978
0.3800	1.258	1.315	1.379	1.558	1.831	1.738
0.4000	1.053	1.019	1.080	1.960	1.976	1.969
0.4200	1.297	1.348	1.371	1.530	1.813	1.726
0.4400	1.008	1.008	1.064	1.952	1.963	1.952
0.4600	1.287	1.338	1.364	1.521	1.800	1.723
0.4800	1.008	1.008	1.064	1.952	1.963	1.952
0.5000	1.287	1.338	1.364	1.521	1.800	1.723
0.5200	1.008	1.008	1.064	1.952	1.963	1.952
0.5400	1.287	1.338	1.364	1.521	1.800	1.723
0.5600	1.008	1.008	1.064	1.952	1.963	1.952
0.5800	1.287	1.338	1.364	1.521	1.800	1.723
0.6000	1.008	1.008	1.064	1.952	1.963	1.952
0.6200	1.287	1.338	1.364	1.521	1.800	1.723
0.6400	1.008	1.008	1.064	1.952	1.963	1.952
0.6600	1.287	1.338	1.364	1.521	1.800	1.723
0.6800	1.008	1.008	1.064	1.952	1.963	1.952
0.7000	1.287	1.338	1.364	1.521	1.800	1.723
0.7200	1.008	1.008	1.064	1.952	1.963	1.952
0.7400	1.287	1.338	1.364	1.521	1.800	1.723
0.7600	1.008	1.008	1.064	1.952	1.963	1.952
0.7800	1.287	1.338	1.364	1.521	1.800	1.723
0.8000	1.008	1.008	1.064	1.952	1.963	1.952
0.8200	1.287	1.338	1.364	1.521	1.800	1.723
0.8400	1.008	1.008	1.064	1.952	1.963	1.952
0.8600	1.287	1.338	1.364	1.521	1.800	1.723
0.8800	1.008	1.008	1.064	1.952	1.963	1.952
0.9000	1.287	1.338	1.364	1.521	1.800	1.723
0.9200	1.008	1.008	1.064	1.952	1.963	1.952
0.9400	1.287	1.338	1.364	1.521	1.800	1.723
0.9600	1.008	1.008	1.064	1.952	1.963	1.952
0.9800	1.287	1.338	1.364	1.521	1.800	1.723
1.0000	1.008	1.008	1.064	1.952	1.963	1.952

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	5.525	1.815	1.647	1.689	2.018	2.070
0.0100	1.207	2.389	3.758	2.210	2.049	1.911
0.0200	1.299	1.824	1.773	1.502	1.439	1.409
0.0400	1.278	1.962	3.532	2.210	2.065	1.921
0.0600	1.296	1.964	1.971	1.630	1.540	1.474
0.0800	1.296	1.692	3.241	2.206	2.073	1.923
0.1000	1.308	1.041	1.085	1.721	1.653	1.550
0.1200	1.316	1.611	2.726	2.168	2.021	1.897
0.1400	1.335	1.146	1.247	1.871	1.777	1.700
0.1600	1.338	1.569	2.323	2.109	2.001	1.884
0.1800	1.342	1.184	1.336	1.952	1.865	1.793
0.2000	1.383	1.170	1.188	2.058	1.975	1.872
0.2200	1.331	1.214	1.407	1.923	1.849	1.800
0.2400	1.422	1.563	2.074	2.009	1.948	1.859
0.2600	1.295	1.205	1.421	1.957	1.894	1.845
0.2800	1.232	1.535	2.004	1.956	1.917	1.845
0.3000	1.259	1.189	1.433	1.973	1.927	1.877
0.3200	1.427	1.505	1.946	1.905	1.893	1.836
0.3400	1.286	1.140	1.150	1.936	1.874	1.831
0.3600	1.407	1.477	1.773	1.874	1.826	1.789
0.3800	1.160	1.119	1.363	1.949	1.926	1.893
0.4000	1.380	1.449	1.877	1.862	1.859	1.830
0.4200	1.108	1.076	1.319	1.921	1.903	1.873
0.4400	1.434	1.483	1.883	1.845	1.864	1.828
0.4600	1.438	1.477	1.873	1.830	1.854	1.828
0.4800	1.131	1.020	1.260	1.981	1.964	1.939
0.5000	1.438	1.481	1.856	1.822	1.852	1.820
0.5200	1.274	1.245	1.168	1.911	1.899	1.874
0.5400	1.483	1.518	1.830	1.790	1.841	1.824
0.5600	1.100	1.049	1.281	1.774	1.833	1.815
0.5800	1.438	1.481	1.856	1.822	1.852	1.820
0.6000	1.274	1.245	1.168	1.911	1.899	1.874
0.6200	1.483	1.518	1.830	1.790	1.841	1.824
0.6400	1.100	1.049	1.281	1.774	1.833	1.815
0.6600	1.438	1.481	1.856	1.822	1.852	1.820
0.6800	1.274	1.245	1.168	1.911	1.899	1.874
0.7000	1.483	1.518	1.830	1.790	1.841	1.824
0.7200	1.100	1.049	1.281	1.774	1.833	1.815
0.7400	1.438	1.481	1.856	1.822	1.852	1.820
0.7600	1.274	1.245	1.168	1.911	1.899	1.874
0.7800	1.483	1.518	1.830	1.790	1.841	1.824
0.8000	1.100	1.049	1.281	1.774	1.833	1.815
0.8200	1.438	1.481	1.856	1.822	1.852	1.820
0.8400	1.274	1.245	1.168	1.911	1.899	1.874
0.8600	1.483	1.518	1.830	1.790	1.841	1.824
0.8800	1.100	1.049	1.281	1.774	1.833	1.815
0.9000	1.438	1.481	1.856	1.822	1.852	1.820
0.9200	1.274	1.245	1.168	1.911	1.899	1.874
0.9400	1.483	1.518	1.830	1.790	1.841	1.824
0.9600	1.100	1.049	1.281	1.774	1.833	1.815
0.9800	1.438	1.481	1.856	1.822	1.852	1.820
1.0000	1.274	1.245	1.168	1.911	1.899	1.874

		S					
$\frac{X}{C}$ (a)		$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	1	5.71	7.26	1.055	1.371	1.371	1.371
0.0100	1	2.179	2.220	2.552	2.572	2.572	2.572
0.0200	1	1.166	1.166	2.552	2.572	2.572	2.572
0.0400	1	1.379	1.044	2.552	2.572	2.572	2.572
0.0600	1	1.379	1.044	2.552	2.572	2.572	2.572
0.0800	1	1.379	1.044	2.552	2.572	2.572	2.572
0.1000	1	1.379	1.044	2.552	2.572	2.572	2.572
0.1200	1	1.379	1.044	2.552	2.572	2.572	2.572
0.1400	1	1.379	1.044	2.552	2.572	2.572	2.572
0.1600	1	1.379	1.044	2.552	2.572	2.572	2.572
0.1800	1	1.379	1.044	2.552	2.572	2.572	2.572
0.2000	1	1.379	1.044	2.552	2.572	2.572	2.572
0.2200	1	1.379	1.044	2.552	2.572	2.572	2.572
0.2400	1	1.379	1.044	2.552	2.572	2.572	2.572
0.2600	1	1.379	1.044	2.552	2.572	2.572	2.572
0.2800	1	1.379	1.044	2.552	2.572	2.572	2.572
0.3000	1	1.379	1.044	2.552	2.572	2.572	2.572
0.3200	1	1.379	1.044	2.552	2.572	2.572	2.572
0.3400	1	1.379	1.044	2.552	2.572	2.572	2.572
0.3600	1	1.379	1.044	2.552	2.572	2.572	2.572
0.3800	1	1.379	1.044	2.552	2.572	2.572	2.572
0.4000	1	1.379	1.044	2.552	2.572	2.572	2.572
0.4200	1	1.379	1.044	2.552	2.572	2.572	2.572
0.4400	1	1.379	1.044	2.552	2.572	2.572	2.572
0.4600	1	1.379	1.044	2.552	2.572	2.572	2.572
0.4800	1	1.379	1.044	2.552	2.572	2.572	2.572
0.5000	1	1.379	1.044	2.552	2.572	2.572	2.572
0.5200	1	1.379	1.044	2.552	2.572	2.572	2.572
0.5400	1	1.379	1.044	2.552	2.572	2.572	2.572
0.5600	1	1.379	1.044	2.552	2.572	2.572	2.572
0.5800	1	1.379	1.044	2.552	2.572	2.572	2.572
0.6000	1	1.379	1.044	2.552	2.572	2.572	2.572
0.6200	1	1.379	1.044	2.552	2.572	2.572	2.572
0.6400	1	1.379	1.044	2.552	2.572	2.572	2.572
0.6600	1	1.379	1.044	2.552	2.572	2.572	2.572
0.6800	1	1.379	1.044	2.552	2.572	2.572	2.572
0.7000	1	1.379	1.044	2.552	2.572	2.572	2.572
0.7200	1	1.379	1.044	2.552	2.572	2.572	2.572
0.7400	1	1.379	1.044	2.552	2.572	2.572	2.572
0.7600	1	1.379	1.044	2.552	2.572	2.572	2.572
0.7800	1	1.379	1.044	2.552	2.572	2.572	2.572
0.8000	1	1.379	1.044	2.552	2.572	2.572	2.572
0.8200	1	1.379	1.044	2.552	2.572	2.572	2.572
0.8400	1	1.379	1.044	2.552	2.572	2.572	2.572
0.8600	1	1.379	1.044	2.552	2.572	2.572	2.572
0.8800	1	1.379	1.044	2.552	2.572	2.572	2.572
0.9000	1	1.379	1.044	2.552	2.572	2.572	2.572
0.9200	1	1.379	1.044	2.552	2.572	2.572	2.572
0.9400	1	1.379	1.044	2.552	2.572	2.572	2.572
0.9600	1	1.379	1.044	2.552	2.572	2.572	2.572
0.9800	1	1.379	1.044	2.552	2.572	2.572	2.572
1.0000	1	1.379	1.044	2.552	2.572	2.572	2.572

TABLE 13. - PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.  
( $\delta_1=20^\circ$ ;  $\delta_2=0$ )

M=0.60

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
0.0000	1.460	1.961	1.844	2.556	2.187	1.946
0.0100	1.406	1.925	1.817	2.528	2.196	1.881
0.0200	1.352	1.761	1.489	2.414	2.376	1.362
0.0400	1.352	1.758	2.418	2.341	2.007	1.886
0.0600	1.096	1.678	2.523	2.523	1.460	1.407
0.0800	1.317	1.551	2.523	2.523	1.978	1.692
0.1000	1.108	1.982	2.722	2.606	1.542	1.474
0.1500	1.315	1.482	2.599	2.066	1.950	1.479
0.2133	1.136	1.049	2.845	1.747	1.686	1.615
0.2533	1.148	1.447	1.985	1.970	1.920	1.865
0.3033	1.120	1.072	1.899	1.899	1.762	1.699
0.3533	1.159	1.465	1.785	1.898	1.902	1.834
0.4167	1.100	1.056	1.926	1.856	1.820	1.765
0.4567	1.408	1.491	1.652	1.831	1.892	1.846
0.5067	1.060	1.019	1.915	1.867	1.847	1.800
0.5567	1.448	1.516	1.595	1.778	1.873	1.834
0.6067	1.984	1.961	1.883	1.848	1.843	1.807
0.6300	1.503	1.543	1.578	1.734	1.854	1.880
0.6500	1.914	1.894	1.853	1.816	1.813	1.785
0.6700	1.529	1.566	1.533	1.709	1.841	1.811
0.6800	1.885	1.852	1.806	1.787	1.802	1.739
0.6900	1.540	1.575	1.501	1.718	1.855	1.812
0.7100	1.919	1.797	1.746	1.760	1.798	1.739
0.7300	1.593	1.609	1.589	1.682	1.828	1.805
0.7400	1.735	1.734	1.594	1.671	1.822	1.803
0.7500	1.911	1.571	1.617	1.665	1.705	1.690
0.7700	1.651	1.666	1.636	1.627	1.641	1.619
0.7800	1.853	1.899	1.778	1.653	1.813	1.800
0.8100	1.717	2.066	1.816	1.798	1.798	1.793
0.8300	1.616	1.638	1.622	1.618	1.624	1.603
0.8533	1.717	1.715	1.602	1.618	1.790	1.773
0.8733	1.687	1.693	1.674	1.678	1.707	1.698
0.8833	1.743	1.457	1.432	1.574	1.777	1.769
0.8933	1.743	1.753	1.734	1.746	1.781	1.768
0.9033	1.749	1.372	1.361	1.558	1.764	1.749
0.9133	1.784	1.808	1.808	1.843	1.854	1.843
0.9333	1.784	1.305	1.316	1.530	1.753	1.745
0.9433	1.823	1.849	1.837	1.869	1.928	1.924
0.9633	1.800	1.256	1.280	1.509	1.738	1.736
0.9733	1.854	1.896	1.890	1.935	1.014	1.010
0.9833	1.818	1.212	1.265	1.492	1.727	1.732
0.9933	1.884	1.946	1.933	1.000	1.099	1.098
1.0033	1.186	1.226	1.235	1.481	1.737	1.728
1.0133	1.147	1.206	1.234	1.476	1.732	1.731
1.0233	1.950	0.974	0.968	1.053	1.189	1.179
1.0333	1.143	1.206	1.216	1.465	1.740	1.728
1.0433	1.053	1.144	1.185	1.440	1.705	1.704
1.0533	1.058	1.132	1.179	1.400	1.657	1.663

M=0.80

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
0.0000	1.503	1.847	1.506	1.732	1.985	2.059
0.0100	1.334	2.561	2.517	2.357	2.060	1.971
0.0200	1.222	2.772	2.584	2.468	1.433	1.405
0.0400	1.366	2.250	2.583	2.368	2.101	1.992
0.0600	1.238	1.915	2.729	2.591	1.526	1.456
0.0800	1.355	1.770	2.802	2.364	2.084	1.978
0.1000	1.271	1.988	2.992	2.526	1.605	1.529
0.1500	1.371	1.678	2.655	2.204	1.940	1.942
0.2133	1.296	1.078	1.939	2.802	1.746	1.669
0.2533	1.398	1.640	1.965	2.459	1.881	1.930
0.3033	1.287	1.109	1.992	2.262	1.823	1.747
0.3533	1.445	1.645	1.789	2.071	1.881	1.920
0.4167	1.242	1.112	1.701	1.911	1.881	1.914
0.4567	1.496	1.047	1.603	1.916	1.906	1.848
0.5067	1.774	1.076	1.679	1.929	1.914	1.899
0.5567	1.521	1.638	1.679	1.898	1.896	1.894
0.6067	1.084	1.015	1.963	1.896	1.902	1.895
0.6300	1.590	1.543	1.901	1.867	1.890	1.894
0.6500	1.549	1.635	1.714	1.873	1.890	1.894
0.6700	1.939	1.537	1.723	1.871	1.890	1.891
0.6800	1.857	1.839	1.812	1.793	1.795	1.767
0.6900	1.604	1.674	1.757	1.802	1.876	1.886
0.7100	1.748	1.682	1.764	1.806	1.868	1.880
0.7300	1.797	1.779	1.753	1.734	1.739	1.715
0.7400	1.649	1.715	1.796	1.802	1.872	1.873
0.7500	1.740	1.720	1.907	1.765	1.856	1.878
0.7700	1.844	1.850	1.796	1.765	1.848	1.873
0.7800	2.021	1.779	1.796	1.765	1.848	1.873
0.8100	1.737	1.709	1.681	1.685	1.841	1.869
0.8300	1.765	1.742	1.724	1.715	1.732	1.716
0.8533	1.813	1.647	1.639	1.693	1.822	1.863
0.8733	1.820	1.799	1.781	1.781	1.804	1.799
0.8833	1.780	1.595	1.682	1.669	1.814	1.856
0.8933	1.869	1.857	1.842	1.868	1.874	1.864
0.9033	1.686	1.560	1.608	1.608	1.805	1.850
0.9133	1.618	1.539	1.580	1.629	1.793	1.841
0.9333	1.979	1.977	1.959	1.980	1.028	1.023
0.9433	1.536	1.522	1.552	1.611	1.774	1.839
0.9633	1.533	1.037	1.015	1.049	1.109	1.110
0.9733	1.532	1.502	1.513	1.612	1.800	1.850
0.9833	1.492	1.496	1.495	1.605	1.791	1.839
0.9933	1.439	1.478	1.451	1.608	1.802	1.851
1.0033	1.137	1.200	1.165	1.268	1.362	1.370
1.0133	1.342	1.441	1.396	1.555	1.758	1.827
1.0233	1.279	1.397	1.344	1.499	1.685	1.734

M=0.90

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
0.0000	1.549	1.779	1.502	1.774	1.954	2.054
0.0100	1.377	2.405	2.544	2.354	2.060	1.971
0.0200	1.250	2.945	2.580	2.467	1.433	1.405
0.0400	1.365	2.322	2.494	2.341	2.007	1.886
0.0600	1.353	1.083	2.523	2.523	1.460	1.407
0.0800	1.317	1.103	2.523	2.523	1.978	1.692
0.1000	1.407	1.168	2.914	2.606	1.542	1.474
0.1500	1.394	1.818	2.297	2.241	1.950	1.479
0.2133	1.413	1.267	1.039	2.122	1.920	1.865
0.2533	1.430	1.803	2.225	2.224	1.928	1.869
0.3033	1.436	1.298	1.093	2.982	1.928	1.869
0.3533	1.491	1.821	1.903	2.122	1.928	1.869
0.4167	1.378	1.304	1.120	2.028	1.928	1.869
0.4567	1.565	1.861	1.959	2.073	1.928	1.869
0.5067	1.264	1.248	1.097	2.025	1.928	1.869
0.5567	1.596	1.892	1.972	2.010	1.928	1.869
0.6067	1.561	1.918	1.948	1.973	1.928	1.869
0.6300	1.535	1.074	1.977	1.935	1.928	1.869
0.6500	1.535	1.908	1.919	1.953	1.928	1.869
0.6700	1.979	1.024	1.937	1.909	1.928	1.869
0.6800	1.517	1.861	1.895	1.943	1.928	1.869
0.6900	1.489	1.949	1.874	1.848	1.928	1.869
0.7100	1.561	1.896	1.912	1.934	1.928	1.869
0.7300	1.560	1.892	1.910	1.928	1.928	1.869
0.7400	1.843	1.863	1.813	1.787	1.928	1.869
0.7500	1.843	1.899	1.816	1.923	1.928	1.869
0.7700	1.799	1.836	1.763	1.729	1.928	1.869
0.7800	1.703	1.965	1.989	1.930	1.928	1.869
0.8100	2.460	2.003	2.071	1.942	1.928	1.869
0.8300	1.800	1.810	1.766	1.715	1.928	1.869
0.8533	2.320	1.964	2.019	1.912	1.928	1.869
0.8733	1.812	1.839	1.781	1.761	1.928	1.869
0.8833	1.976	1.889	1.961	1.861	1.928	1.869
0.8933	1.861	1.902	1.846	1.835	1.928	1.869
0.9033	1.881	1.865	1.937	1.866	1.928	1.869
0.9133	1.915	1.965	1.910	1.902	1.928	1.869
0.9333	1.949	1.965	1.910	1.952	1.928	1.869
0.9433	1.979	1.038	1.978	1.973	1.928	1.869
0.9633	1.815	1.845	1.886	1.842	1.928	1.869
0.9733	1.010	1.114	1.049	1.124	1.928	1.869
0.9833	1.787	1.840	1.870	1.835	1.928	1.869
0.9933	1.100	1.184	1.120	1.124	1.928	1.869
1.0033	1.013	1.181	1.124	1.124	1.928	1.869
1.0133	1.761	1.813	1.849	1.815	1.928	1.869
1.0233	1.100	1.236	1.172	1.178	1.928	1.869
1.0333	1.761	1.792	1.823	1.815	1.928	1.869
1.0433	1.244	1.389	1.325	1.334	1.928	1.869
1.0533	1.243	1.759	1.781	1.798	1.928	1.869
1.0583	1.484	1.677	1.653	1.670	1.928	1.869

M=0.93

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
0.0000	1.567	1.709	1.574	1.774	1.954	2.054
0.0100	1.285	2.211	2.534	2.354	2.060	1.971
0.0200	1.382	2.927	2.517	2.468	1.433	1.405
0.0400	1.394	2.338	2.583	2.368	2.101	1.992
0.0600	1.394	1.057	2.583	2.368	1.526	1.456

TABLE 14.- PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.

 $(\delta_f=20^\circ, \delta_r=10^\circ)$ 

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
0.0000	1.470	1.253	1.807	2.363	2.277	1.958
0.0100	1.459	1.238	1.793	2.350	2.261	1.940
0.0200	1.435	1.215	1.768	2.325	2.236	1.915
0.0300	1.400	1.170	1.713	2.270	2.181	1.860
0.0400	1.365	1.125	1.658	2.215	2.126	1.805
0.0500	1.330	1.080	1.603	2.160	2.071	1.750
0.0600	1.295	1.035	1.548	2.105	2.016	1.695
0.0700	1.260	0.990	1.493	2.050	1.961	1.640
0.0800	1.225	0.945	1.438	1.995	1.906	1.585
0.0900	1.190	0.900	1.383	1.940	1.851	1.530
0.1000	1.155	0.855	1.328	1.885	1.796	1.475
0.1100	1.120	0.810	1.273	1.830	1.741	1.420
0.1200	1.085	0.765	1.218	1.775	1.686	1.365
0.1300	1.050	0.720	1.163	1.720	1.631	1.310
0.1400	1.015	0.675	1.108	1.665	1.576	1.255
0.1500	0.980	0.630	1.053	1.610	1.521	1.200
0.1600	0.945	0.585	0.998	1.555	1.466	1.145
0.1700	0.910	0.540	0.943	1.500	1.411	1.090
0.1800	0.875	0.495	0.888	1.445	1.356	1.035
0.1900	0.840	0.450	0.833	1.390	1.301	0.980
0.2000	0.805	0.405	0.778	1.335	1.246	0.925
0.2100	0.770	0.360	0.723	1.280	1.191	0.870
0.2200	0.735	0.315	0.668	1.225	1.136	0.815
0.2300	0.700	0.270	0.613	1.170	1.081	0.760
0.2400	0.665	0.225	0.558	1.115	1.026	0.705
0.2500	0.630	0.180	0.503	1.060	0.971	0.650
0.2600	0.595	0.135	0.448	1.005	0.916	0.595
0.2700	0.560	0.090	0.393	0.950	0.861	0.540
0.2800	0.525	0.045	0.338	0.895	0.806	0.485
0.2900	0.490	0.000	0.283	0.840	0.751	0.430
0.3000	0.455		0.228	0.785	0.696	0.375
0.3100	0.420		0.173	0.730	0.641	0.320
0.3200	0.385		0.118	0.675	0.586	0.265
0.3300	0.350		0.063	0.620	0.531	0.210
0.3400	0.315		0.008	0.565	0.476	0.155
0.3500	0.280			0.510	0.421	0.100
0.3600	0.245			0.455	0.366	0.045
0.3700	0.210			0.400	0.311	
0.3800	0.175			0.345	0.256	
0.3900	0.140			0.290	0.201	
0.4000	0.105			0.235	0.146	
0.4100	0.070			0.180	0.091	
0.4200	0.035			0.125	0.036	
0.4300	0.000			0.070		
0.4400				0.015		
0.4500						
0.4600						
0.4700						
0.4800						
0.4900						
0.5000						
0.5100						
0.5200						
0.5300						
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0.9600						
0.9700						
0.9800						
0.9900						
1.0000						

$M=0.80$						
$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
0.0000	1.494	1.860	1.330	1.703	2.031	2.057
0.0100	1.375	2.524	1.177	2.253	2.089	1.964
0.0200	1.173	2.733	0.910	2.486	2.435	1.704
0.0300	1.396	2.335	2.510	2.603	2.411	1.974
0.0400	1.211	1.904	1.721	2.603	1.520	1.456
0.0500	1.337	1.777	2.762	2.256	2.107	1.980
0.0600	1.133	1.989	1.989	2.884	2.097	1.907
0.0700	1.389	1.674	2.608	2.216	2.049	1.955
0.0800	1.139	1.074	1.300	2.824	2.732	1.665
0.0900	1.233	1.473	1.564	1.211	2.084	1.745
0.1000	1.303	1.255	1.103	1.983	1.775	1.934
0.1100	1.333	1.478	1.146	1.803	1.996	1.810
0.1200	1.167	1.603	1.003	1.931	1.866	1.810
0.1300	1.333	1.234	1.700	2.932	1.886	1.836
0.1400	1.067	1.136	1.063	1.981	1.937	1.905
0.1500	1.567	1.658	1.690	1.983	1.937	1.905
0.1600	1.337	1.682	1.440	1.868	1.818	1.798
0.1700	1.500	1.577	1.722	1.958	1.977	1.800
0.1800	1.333	1.655	1.876	1.862	1.834	1.809
0.1900	1.058	1.919	1.736	1.933	1.905	1.889
0.2000	1.538	1.648	1.844	1.933	1.905	1.889
0.2100	1.380	1.913	1.712	1.932	1.904	1.899
0.2200	1.690	1.518	1.618	1.712	1.904	1.899
0.2300	1.100	1.826	1.805	1.775	1.765	1.746
0.2400	1.700	1.699	1.799	1.905	1.899	1.899
0.2500	1.700	1.639	1.705	1.803	1.882	1.892
0.2600	1.7400	1.756	1.745	1.719	1.718	1.692
0.2700	1.7500	1.662	1.734	1.732	1.886	1.895
0.2800	1.7500	1.662	1.666	1.666	1.883	1.895
0.2900	1.7800	1.820	1.883	1.986	1.872	1.897
0.3000	1.8100	2.205	1.889	1.941	1.850	1.889
0.3100	1.8200	1.683	1.683	1.684	1.622	1.620
0.3200	1.8300	2.073	1.889	1.778	1.778	1.889
0.3300	1.8300	1.775	1.775	1.774	1.812	1.885
0.3400	1.8700	1.711	1.711	1.732	1.732	1.885
0.3500	1.9000	1.692	1.720	1.736	1.798	1.884
0.3600	1.9100	1.788	1.788	1.775	1.797	1.883
0.3700	1.9100	1.788	1.788	1.775	1.797	1.883
0.3800	1.9300	1.819	1.823	1.806	1.839	1.877
0.3900	1.9300	1.752	1.635	1.644	1.774	1.874
0.4000	1.9300	1.752	1.838	1.820	1.860	1.874
0.4100	1.9300	1.823	1.671	1.708	1.808	1.876
0.4200	1.9300	1.804	1.818	1.800	1.847	1.860
0.4300	1.9300	1.697	1.592	1.556	1.807	1.885
0.4400	1.9300	1.521	1.521	1.521	1.807	1.885
0.4500	1.9300	1.877	1.911	1.886	1.958	1.980
0.4600	1.9300	1.563	1.558	1.488	1.758	1.880
0.4700	1.9300	1.043	1.096	1.060	1.176	1.219
0.4800	1.9300	1.443	1.333	1.333	1.443	1.443
0.4900	1.9300	1.350	1.000	1.340	1.567	1.675

TABLE 15.- PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.  
( $\delta_f=20^\circ$ ;  $\delta_r=20^\circ$ )

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
0.0000	1.4082	1.253	1.0865	2.0002	2.1177	1.9448
0.0100	1.4833	1.2841	1.0976	2.0782	1.9884	1.8999
0.0200	1.5584	1.3149	1.1087	2.1562	1.9704	1.8611
0.0300	1.6335	1.3457	1.1198	2.2342	1.9524	1.8223
0.0400	1.7086	1.3765	1.1309	2.3122	1.9344	1.7835
0.0500	1.7837	1.4073	1.1420	2.3902	1.9164	1.7447
0.0600	1.8588	1.4381	1.1531	2.4682	1.8984	1.7059
0.0700	1.9339	1.4689	1.1642	2.5462	1.8804	1.6671
0.0800	2.0090	1.4997	1.1753	2.6242	1.8624	1.6283
0.0900	2.0841	1.5305	1.1864	2.7022	1.8444	1.5895
0.1000	2.1592	1.5613	1.1975	2.7802	1.8264	1.5507
0.1100	2.2343	1.5921	1.2086	2.8582	1.8084	1.5119
0.1200	2.3094	1.6229	1.2197	2.9362	1.7904	1.4731
0.1300	2.3845	1.6537	1.2308	3.0142	1.7724	1.4343
0.1400	2.4596	1.6845	1.2419	3.0922	1.7544	1.3955
0.1500	2.5347	1.7153	1.2530	3.1702	1.7364	1.3567
0.1600	2.6098	1.7461	1.2641	3.2482	1.7184	1.3179
0.1700	2.6849	1.7769	1.2752	3.3262	1.7004	1.2791
0.1800	2.7600	1.8077	1.2863	3.4042	1.6824	1.2403
0.1900	2.8351	1.8385	1.2974	3.4822	1.6644	1.2015
0.2000	2.9102	1.8693	1.3085	3.5602	1.6464	1.1627
0.2100	2.9853	1.9001	1.3196	3.6382	1.6284	1.1239
0.2200	3.0604	1.9309	1.3307	3.7162	1.6104	1.0851
0.2300	3.1355	1.9617	1.3418	3.7942	1.5924	1.0463
0.2400	3.2106	1.9925	1.3529	3.8722	1.5744	1.0075
0.2500	3.2857	2.0233	1.3640	3.9502	1.5564	0.9687
0.2600	3.3608	2.0541	1.3751	4.0282	1.5384	0.9299
0.2700	3.4359	2.0849	1.3862	4.1062	1.5204	0.8911
0.2800	3.5110	2.1157	1.3973	4.1842	1.5024	0.8523
0.2900	3.5861	2.1465	1.4084	4.2622	1.4844	0.8135
0.3000	3.6612	2.1773	1.4195	4.3402	1.4664	0.7747
0.3100	3.7363	2.2081	1.4306	4.4182	1.4484	0.7359
0.3200	3.8114	2.2389	1.4417	4.4962	1.4304	0.6971
0.3300	3.8865	2.2697	1.4528	4.5742	1.4124	0.6583
0.3400	3.9616	2.3005	1.4639	4.6522	1.3944	0.6195
0.3500	4.0367	2.3313	1.4750	4.7302	1.3764	0.5807
0.3600	4.1118	2.3621	1.4861	4.8082	1.3584	0.5419
0.3700	4.1869	2.3929	1.4972	4.8862	1.3404	0.5031
0.3800	4.2620	2.4237	1.5083	4.9642	1.3224	0.4643
0.3900	4.3371	2.4545	1.5194	5.0422	1.3044	0.4255
0.4000	4.4122	2.4853	1.5305	5.1202	1.2864	0.3867
0.4100	4.4873	2.5161	1.5416	5.1982	1.2684	0.3479
0.4200	4.5624	2.5469	1.5527	5.2762	1.2504	0.3091
0.4300	4.6375	2.5777	1.5638	5.3542	1.2324	0.2703
0.4400	4.7126	2.6085	1.5749	5.4322	1.2144	0.2315
0.4500	4.7877	2.6393	1.5860	5.5102	1.1964	0.1927
0.4600	4.8628	2.6701	1.5971	5.5882	1.1784	0.1539
0.4700	4.9379	2.7009	1.6082	5.6662	1.1604	0.1151
0.4800	5.0130	2.7317	1.6193	5.7442	1.1424	0.0763
0.4900	5.0881	2.7625	1.6304	5.8222	1.1244	0.0375
0.5000	5.1632	2.7933	1.6415	5.9002	1.1064	0.0000

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
0.0000	1.5044	1.3887	1.2734	1.7033	2.0055	2.0355
0.0100	1.5777	1.4620	1.3467	1.7766	2.0788	2.1088
0.0200	1.6510	1.5353	1.4200	1.8500	2.1521	2.1821
0.0300	1.7243	1.6086	1.4933	1.9233	2.2254	2.2554
0.0400	1.7976	1.6819	1.5666	1.9966	2.2987	2.3287
0.0500	1.8709	1.7552	1.6400	2.0700	2.3720	2.4020
0.0600	1.9442	1.8285	1.7133	2.1433	2.4453	2.4753
0.0700	2.0175	1.9018	1.7866	2.2166	2.5186	2.5486
0.0800	2.0908	1.9751	1.8600	2.2900	2.5919	2.6219
0.0900	2.1641	2.0484	1.9333	2.3633	2.6652	2.6952
0.1000	2.2374	2.1217	2.0066	2.4366	2.7385	2.7685
0.1100	2.3107	2.1950	2.0800	2.5100	2.8118	2.8418
0.1200	2.3840	2.2683	2.1533	2.5833	2.8851	2.9151
0.1300	2.4573	2.3416	2.2266	2.6566	2.9584	2.9884
0.1400	2.5306	2.4149	2.3000	2.7300	3.0317	3.0617
0.1500	2.6039	2.4882	2.3733	2.8033	3.1050	3.1350
0.1600	2.6772	2.5615	2.4466	2.8766	3.1783	3.2083
0.1700	2.7505	2.6348	2.5200	2.9500	3.2516	3.2816
0.1800	2.8238	2.7081	2.5933	3.0233	3.3249	3.3549
0.1900	2.8971	2.7814	2.6666	3.0966	3.3982	3.4282
0.2000	2.9704	2.8547	2.7400	3.1700	3.4715	3.5015
0.2100	3.0437	2.9280	2.8133	3.2433	3.5448	3.5748
0.2200	3.1170	3.0013	2.8866	3.3166	3.6181	3.6481
0.2300	3.1903	3.0746	2.9600	3.3900	3.6914	3.7214
0.2400	3.2636	3.1479	3.0333	3.4633	3.7647	3.7947
0.2500	3.3369	3.2212	3.1066	3.5366	3.8380	3.8680
0.2600	3.4102	3.2945	3.1800	3.6100	3.9113	3.9413
0.2700	3.4835	3.3678	3.2533	3.6833	3.9846	3.9846
0.2800	3.5568	3.4411	3.3266	3.7566	4.0579	4.0579
0.2900	3.6301	3.5144	3.4000	3.8300	4.1312	4.1312
0.3000	3.7034	3.5877	3.4733	3.9033	4.2045	4.2045
0.3100	3.7767	3.6610	3.5466	3.9766	4.2778	4.2778
0.3200	3.8500	3.7343	3.6200	4.0500	4.3511	4.3511
0.3300	3.9233	3.8076	3.6933	4.1233	4.4244	4.4244
0.3400	3.9966	3.8809	3.7666	4.1966	4.4977	4.4977
0.3500	4.0699	3.9542	3.8400	4.2700	4.5710	4.5710
0.3600	4.1432	4.0275	3.9133	4.3433	4.6443	4.6443
0.3700	4.2165	4.1008	3.9866	4.4166	4.7176	4.7176
0.3800	4.2898	4.1741	4.0600	4.4900	4.7909	4.7909
0.3900	4.3631	4.2474	4.1333	4.5633	4.8642	4.8642
0.4000	4.4364	4.3207	4.2066	4.6366	4.9375	4.9375
0.4100	4.5097	4.3940	4.2800	4.7100	5.0108	5.0108
0.4200	4.5830	4.4673	4.3533	4.7833	5.0841	5.0841
0.4300	4.6563	4.5406	4.4266	4.8566	5.1574	5.1574
0.4400	4.7296	4.6139	4.5000	4.9300	5.2307	5.2307
0.4500	4.8029	4.6872	4.5733	4.9733	5.3040	5.3040
0.4600	4.8762	4.7605	4.6466	5.0466	5.3773	5.3773
0.4700	4.9495	4.8338	4.7200	5.1200	5.4506	5.4506
0.4800	5.0228	4.9071	4.7933	5.1933	5.5239	5.5239
0.4900	5.0961	4.9804	4.8666	5.2666	5.5972	5.5972
0.5000	5.1694	5.0537	4.9400	5.3400	5.6705	5.6705

$M = 0.90$						
$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	1.547	1.734	1.7039	1.7408	2.332	2.332
0.0100	1.291	2.259	2.583	2.583	2.332	2.332
0.0200	1.314	2.482	2.671	2.671	2.539	2.539
0.0300	1.366	2.715	2.760	2.760	2.744	2.744
0.0400	1.418	2.948	2.849	2.849	2.949	2.949
0.0500	1.470	3.181	2.938	2.938	3.154	3.154
0.0600	1.522	3.414	3.027	3.027	3.359	3.359
0.0700	1.574	3.647	3.116	3.116	3.564	3.564
0.0800	1.626	3.880	3.205	3.205	3.769	3.769
0.0900	1.678	4.113	3.294	3.294	3.974	3.974
0.1000	1.730	4.346	3.383	3.383	4.179	4.179
0.1100	1.782	4.579	3.472	3.472	4.384	4.384
0.1200	1.834	4.812	3.561	3.561	4.589	4.589
0.1300	1.886	5.045	3.650	3.650	4.794	4.794
0.1400	1.938	5.278	3.739	3.739	4.999	4.999
0.1500	1.990	5.511	3.828	3.828	5.204	5.204
0.1600	2.042	5.744	3.917	3.917	5.409	5.409
0.1700	2.094	5.977	4.006	4.006	5.614	5.614
0.1800	2.146	6.210	4.095	4.095	5.819	5.819
0.1900	2.198	6.443	4.184	4.184	6.024	6.024
0.2000	2.250	6.676	4.273	4.273	6.229	6.229
0.2100	2.302	6.909	4.362	4.362	6.434	6.434
0.2200	2.354	7.142	4.451	4.451	6.639	6.639
0.2300	2.406	7.375	4.540	4.540	6.844	6.844
0.2400	2.458	7.608	4.629	4.629	7.049	7.049
0.2500	2.510	7.841	4.718	4.718	7.254	7.254
0.2600	2.562	8.074	4.807	4.807	7.459	7.459
0.2700	2.614	8.307	4.896	4.896	7.664	7.664
0.2800	2.666	8.540	4.985	4.985	7.869	7.869
0.2900	2.718	8.773	5.074	5.074	8.074	8.074
0.3000	2.770	9.006	5.163	5.163	8.279	8.279
0.3100	2.822	9.239	5.252	5.252	8.484	8.484
0.3200	2.874	9.472	5.341	5.341	8.689	8.689
0.3300	2.926	9.705	5.430	5.430	8.894	8.894
0.3400	2.978	9.938	5.519	5.519	9.099	9.099
0.3500	3.030	10.171	5.608	5.608	9.304	9.304
0.3600	3.082	10.404	5.697	5.697	9.509	9.509
0.3700	3.134	10.637	5.786	5.786	9.714	9.714
0.3800	3.186	10.870	5.875	5.875	9.919	9.919
0.3900	3.238	11.103	5.964	5.964	10.124	10.124
0.4000	3.290	11.336	6.053	6.053	10.329	10.329
0.4100	3.342	11.569	6.142	6.142	10.534	10.534
0.4200	3.394	11.802	6.231	6.231	10.739	10.739
0.4300	3.446	12.035	6.320	6.320	10.944	10.944
0.4400	3.498	12.268	6.409	6.409	11.149	11.149
0.4500	3.550	12.501	6.498	6.498	11.354	11.354
0.4600	3.602	12.734	6.587	6.587	11.559	11.559
0.4700	3.654	12.967	6.676	6.676	11.764	11.764
0.4800	3.706	13.200	6.765	6.765	11.969	11.969
0.4900	3.758	13.433	6.854	6.854	12.174	12.174
0.5000	3.810	13.666	6.943	6.943	12.379	12.379
0.5100	3.862	13.899	7.032	7.032	12.584	12.584
0.5200	3.914	14.132	7.121	7.121	12.789	12.789
0.5300	3.966	14.365	7.210	7.210	12.994	12.994
0.5400	4.018	14.598	7.299	7.299	13.199	13.199
0.5500	4.070	14.831	7.388	7.388	13.404	13.404
0.5600	4.122	15.064	7.477	7.477	13.609	13.609
0.5700	4.174	15.297	7.566	7.566	13.814	13.814
0.5800	4.226	15.530	7.655	7.655	14.019	14.019
0.5900	4.278	15.763	7.744	7.744	14.224	14.224
0.6000	4.330	15.996	7.833	7.833	14.429	14.429
0.6100	4.382	16.229	7.922	7.922	14.634	14.634
0.6200	4.434	16.462	8.011	8.011	14.839	14.839
0.6300	4.486	16.695	8.100	8.100	15.044	15.044
0.6400	4.538	16.928	8.189	8.189	15.249	15.249
0.6500	4.590	17.161	8.278	8.278	15.454	15.454
0.6600	4.642	17.394	8.367	8.367	15.659	15.659
0.6700	4.694	17.627	8.456	8.456	15.864	15.864
0.6800	4.746	17.860	8.545	8.545	16.069	16.069
0.6900	4.798	18.093	8.634	8.634	16.274	16.274
0.7000	4.850	18.326	8.723	8.723	16.479	16.479
0.7100	4.902	18.559	8.812	8.812	16.684	16.684
0.7200	4.954	18.792	8.901	8.901	16.889	16.889
0.7300	5.006	19.025	8.990	8.990	17.094	17.094
0.7400	5.058	19.258	9.079	9.079	17.299	17.299
0.7500	5.110	19.491	9.168	9.168	17.504	17.504
0.7600	5.162	19.724	9.257	9.257	17.709	17.709
0.7700	5.214	19.957	9.346	9.346	17.914	17.914
0.7800	5.266	20.190	9.435	9.435	18.119	18.119
0.7900	5.318	20.423	9.524	9.524	18.324	18.324
0.8000	5.370	20.656	9.613	9.613	18.529	18.529
0.8100	5.422	20.889	9.702	9.702	18.734	18.734
0.8200	5.474	21.122	9.791	9.791	18.939	18.939
0.8300	5.526	21.355	9.880	9.880	19.144	19.144
0.8400	5.578	21.588	9.969	9.969	19.349	19.349
0.8500	5.630	21.821	10.058	10.058	19.554	19.554
0.8600	5.682	22.054	10.147	10.147	19.759	19.759
0.8700	5.734	22.287	10.236	10.236	19.964	19.964
0.8800	5.786	22.520	10.325	10.325	20.169	20.169
0.8900	5.838	22.753	10.414	10.414	20.374	20.374
0.9000	5.890	22.986	10.503	10.503	20.579	20.579
0.9100	5.942	23.219	10.592	10.592	20.784	20.784
0.9200	5.994	23.452	10.681	10.681	20.989	20.989
0.9300	6.046	23.685	10.770	10.770	21.194	21.194
0.9400	6.098	23.918	10.859	10.859	21.399	21.399
0.9500	6.150	24.151	10.948	10.948	21.604	21.604
0.9600	6.202	24.384	11.037	11.037	21.809	21.809
0.9700	6.254	24.617	11.126	11.126	22.014	22.014
0.9800	6.306	24.850	11.215	11.215	22.219	22.219
0.9900	6.358	25.083	11.304	11.304	22.424	22.424
1.0000	6.410	25.316	11.393	11.393	22.629	22.629

TABLE 16. - PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.  
 $(\delta_f=20^\circ; \delta_r=10^\circ)$

$M=0.60$

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
0.0000	1.460	1.179	1.929	2.152	2.182	1.922
0.0100	1.384	2.697	2.593	2.412	1.993	1.868
0.0200	1.053	2.656	2.659	2.414	1.978	1.866
0.0400	1.343	1.924	2.615	2.145	1.993	1.864
0.0600	1.105	1.810	2.801	2.532	1.457	1.411
0.0800	1.319	1.704	2.591	2.067	1.982	1.867
0.1000	1.128	1.891	2.896	2.615	1.536	1.480
0.1200	1.321	1.503	2.362	2.017	1.951	1.861
0.1333	1.177	1.900	2.026	1.766	1.689	1.631
0.1500	1.328	1.527	2.175	1.971	1.919	1.850
0.1667	1.153	1.017	1.077	0.828	1.761	1.709
0.1833	1.357	1.502	1.704	1.866	1.879	1.810
0.2000	1.128	1.097	1.110	0.883	1.824	1.783
0.2133	1.407	1.516	1.832	1.917	1.895	1.820
0.2267	1.092	1.003	1.074	0.814	1.856	1.824
0.2400	1.358	1.522	1.719	1.866	1.879	1.810
0.2533	1.128	1.097	1.110	0.883	1.824	1.783
0.2667	1.407	1.516	1.832	1.917	1.895	1.820
0.2800	1.092	1.003	1.074	0.814	1.856	1.824
0.2933	1.358	1.522	1.719	1.866	1.879	1.810
0.3067	1.128	1.097	1.110	0.883	1.824	1.783
0.3200	1.407	1.516	1.832	1.917	1.895	1.820
0.3333	1.092	1.003	1.074	0.814	1.856	1.824
0.3467	1.358	1.522	1.719	1.866	1.879	1.810
0.3600	1.128	1.097	1.110	0.883	1.824	1.783
0.3733	1.407	1.516	1.832	1.917	1.895	1.820
0.3867	1.092	1.003	1.074	0.814	1.856	1.824
0.4000	1.358	1.522	1.719	1.866	1.879	1.810
0.4133	1.128	1.097	1.110	0.883	1.824	1.783
0.4267	1.407	1.516	1.832	1.917	1.895	1.820
0.4400	1.092	1.003	1.074	0.814	1.856	1.824
0.4533	1.358	1.522	1.719	1.866	1.879	1.810
0.4667	1.128	1.097	1.110	0.883	1.824	1.783
0.4800	1.407	1.516	1.832	1.917	1.895	1.820
0.4933	1.092	1.003	1.074	0.814	1.856	1.824
0.5067	1.358	1.522	1.719	1.866	1.879	1.810
0.5200	1.128	1.097	1.110	0.883	1.824	1.783
0.5333	1.407	1.516	1.832	1.917	1.895	1.820
0.5467	1.092	1.003	1.074	0.814	1.856	1.824
0.5600	1.358	1.522	1.719	1.866	1.879	1.810
0.5733	1.128	1.097	1.110	0.883	1.824	1.783
0.5867	1.407	1.516	1.832	1.917	1.895	1.820
0.6000	1.092	1.003	1.074	0.814	1.856	1.824
0.6133	1.358	1.522	1.719	1.866	1.879	1.810
0.6267	1.128	1.097	1.110	0.883	1.824	1.783
0.6400	1.407	1.516	1.832	1.917	1.895	1.820
0.6533	1.092	1.003	1.074	0.814	1.856	1.824
0.6667	1.358	1.522	1.719	1.866	1.879	1.810
0.6800	1.128	1.097	1.110	0.883	1.824	1.783
0.6933	1.407	1.516	1.832	1.917	1.895	1.820
0.7067	1.092	1.003	1.074	0.814	1.856	1.824
0.7200	1.358	1.522	1.719	1.866	1.879	1.810
0.7333	1.128	1.097	1.110	0.883	1.824	1.783
0.7467	1.407	1.516	1.832	1.917	1.895	1.820
0.7600	1.092	1.003	1.074	0.814	1.856	1.824
0.7733	1.358	1.522	1.719	1.866	1.879	1.810
0.7867	1.128	1.097	1.110	0.883	1.824	1.783
0.8000	1.407	1.516	1.832	1.917	1.895	1.820
0.8133	1.092	1.003	1.074	0.814	1.856	1.824
0.8267	1.358	1.522	1.719	1.866	1.879	1.810
0.8400	1.128	1.097	1.110	0.883	1.824	1.783
0.8533	1.407	1.516	1.832	1.917	1.895	1.820
0.8667	1.092	1.003	1.074	0.814	1.856	1.824
0.8800	1.358	1.522	1.719	1.866	1.879	1.810
0.8933	1.128	1.097	1.110	0.883	1.824	1.783
0.9067	1.407	1.516	1.832	1.917	1.895	1.820
0.9200	1.092	1.003	1.074	0.814	1.856	1.824
0.9333	1.358	1.522	1.719	1.866	1.879	1.810
0.9467	1.128	1.097	1.110	0.883	1.824	1.783
0.9600	1.407	1.516	1.832	1.917	1.895	1.820
0.9733	1.092	1.003	1.074	0.814	1.856	1.824
0.9867	1.358	1.522	1.719	1.866	1.879	1.810
1.0000	1.128	1.097	1.110	0.883	1.824	1.783

$M=0.80$

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
0.0000	1.500	1.847	1.302	1.672	1.985	1.985
0.0100	1.334	2.562	2.678	2.180	2.057	2.057
0.0200	1.304	2.771	2.584	2.482	2.433	2.433
0.0400	1.364	2.273	2.611	2.175	2.083	2.083
0.0600	1.230	2.916	2.733	2.608	2.524	2.524
0.0800	1.362	1.754	2.463	2.589	2.583	2.583
0.1000	1.256	1.995	2.823	2.588	2.607	2.607
0.1200	1.375	1.659	2.552	2.127	2.031	2.031
0.1333	1.289	1.094	1.948	1.335	1.747	1.747
0.1500	1.407	1.628	2.049	2.078	2.006	2.006
0.1667	1.282	1.122	1.000	0.904	0.829	0.829
0.1833	1.461	1.632	1.912	2.039	1.979	1.979
0.2000	1.251	1.129	1.036	0.959	0.894	0.894
0.2133	1.449	1.630	1.915	1.990	1.955	1.955
0.2267	1.185	1.096	1.020	0.970	0.918	0.918
0.2400	1.438	1.638	1.769	1.964	1.924	1.924
0.2533	1.105	1.048	0.991	0.960	0.918	0.918
0.2667	1.526	1.611	1.737	1.927	1.899	1.899
0.2800	1.015	1.070	1.033	0.917	0.887	0.887
0.2933	1.451	1.444	1.493	1.898	1.882	1.882
0.3067	0.970	0.934	0.899	0.896	0.872	0.872
0.3200	1.330	1.437	1.702	1.854	1.867	1.867
0.3333	1.293	1.868	1.851	1.820	1.820	1.820
0.3467	1.684	1.721	1.732	1.888	1.888	1.888
0.3600	1.645	1.688	1.721	1.869	1.868	1.868
0.3733	1.417	1.800	1.784	1.779	1.769	1.769
0.3867	1.647	1.690	1.724	1.860	1.860	1.860
0.4000	1.752	1.743	1.718	1.714	1.696	1.696
0.4133	1.420	1.775	1.745	1.839	1.839	1.839
0.4267	1.778	1.677	1.709	1.819	1.841	1.841
0.4400	1.726	1.723	1.699	1.694	1.679	1.679
0.4533	1.668	1.558	1.581	1.606	1.632	1.632
0.4667	1.002	1.007	0.971	1.006	1.002	1.002
0.4800	1.609	1.514	1.524	1.785	1.814	1.814
0.4933	1.866	1.844	1.844	1.864	1.864	1.864
0.5067	1.551	1.479	1.484	1.766	1.802	1.802
0.5200	0.947	0.929	0.919	0.952	0.958	0.958
0.5333	1.503	1.451	1.446	1.761	1.798	1.798
0.5467	1.633	1.620	1.613	1.658	1.667	1.667
0.5600	1.458	1.433	1.414	1.741	1.786	1.786
0.5733	1.146	1.133	1.126	1.192	1.214	1.214
0.5867	1.463	1.442	1.432	1.712	1.771	1.771
0.6000	1.318	1.315	1.309	1.424	1.461	1.461
0.6133	1.406	1.413	1.383	1.759	1.787	1.787
0.6267	1.280	1.403	1.362	1.734	1.781	1.781
0.6400	1.353	1.390	1.332	1.738	1.781	1.781
0.6533	1.269	1.311	1.287	1.741	1.785	1.785
0.6667	1.005	1.355	1.355	1.709	1.772	1.772
0.6800	1.304	1.358	1.329	1.726	1.789	1.789

$$M=0.90$$

$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
0.0000	1.551	1.724	1.038	1.372	1.931	1.931
0.0100	1.247	2.289	2.569	2.564	2.549	2.549
0.0200	1.342	2.882	2.675	2.549	2.549	2.549
0.0400	1.323	2.209	2.535	2.520	2.520	2.520
0.0600	1.035	2.016	2.881	2.483	2.483	2.483
0.0800	1.319	2.039	2.432	2.371	2.371	2.371
0.1000	1.040	1.049	2.910	2.773	2.773	2.773
0.1200	1.343	1.679	2.317	2.227	2.227	2.227
0.1333	1.438	1.205	1.034	0.912	0.912	0.912
0.1500	1.377	1.662	2.253	2.200	2.200	2.200
0.1667	1.104	1.238	1.094	0.983	0.983	0.983
0.1833	1.429	1.665	1.934	2.116	2.116	2.116
0.2000	1.350	1.242	1.139	1.036	1.036	1.036
0.2133	1.502	1.707	1.923	2.034	2.034	2.034
0.2267	1.280	1.198	1.110	1.039	1.039	1.039
0.2400	1.544	1.737	1.874	1.967	1.967	1.967
0.2533	1.168	1.177	1.073	1.054	1.054	1.054
0.2667	1.555	1.753	1.851	1.940	1.940	1.940
0.2800	1.062	1.036	1.000	0.961	0.961	0.961
0.2933	1.454	1.664	1.766	1.919	1.919	1.919
0.3067	1.003	0.994	0.964	0.935	0.935	0.935
0.3200	1.315	1.531	1.726	1.882	1.882	1.882
0.3333	0.921	0.920	0.896	0.873	0.873	0.873
0.3467	1.581	1.799	1.914	1.923	1.923	1.923
0.3600	1.556	1.768	1.880	1.911	1.911	1.911
0.3733	1.063	1.053	1.032	1.015	1.015	1.015
0.3867	1.561	1.758	1.880	1.911	1.911	1.911
0.4000	1.063	1.053	1.032	1.015	1.015	1.015
0.4133	1.561	1.758	1.880	1.911	1.911	1.911
0.4267	1.063	1.053	1.032	1.015	1.015	1.015
0.4400	1.561	1.758	1.880	1.911	1.911	1.911
0.4533	1.063	1.053	1.032	1.015	1.015	1.015
0.4667	1.561	1.758	1.880	1.911	1.911	1.911
0.4800	1.063	1.053	1.032	1.015	1.015	1.015
0.4933	1.561	1.758	1.880	1.911	1.911	1.911
0.5067	1.063	1.053	1.032	1.015	1.015	1.015
0.5200	1.561	1.758	1.880	1.911	1.911	1.911
0.5333	1.063	1.053	1.032	1.015	1.015	1.015
0.5467	1.561	1.758	1.880	1.911	1.911	1.911
0.5600	1.063	1.053	1.032	1.015	1.015	1.015
0.5733	1.561	1.758	1.880	1.911	1.911	1.911
0.5867	1.063	1.053	1.032	1.015	1.015	1.015
0.6000	1.561	1.758	1.880	1.911	1.911	1.911
0.6133	1.063	1.053	1.032	1.015	1.015	1.015
0.6267	1.561	1.758	1.880	1.911	1.911	1.911
0.6400	1.063	1.053	1.032	1.015	1.015	1.015
0.6533	1.561	1.758	1.880	1.911	1.911	1.911
0.6667	1.063	1.053	1.032	1.015	1.015	1.015
0.6800	1.561	1.758	1.880	1.911	1.911	1.911
0.6933	1.063	1.053	1.032	1.015	1.015	1.015
0.7067	1.561	1.758	1.880	1.911	1.911	1.911
0.7200	1.063	1.053	1.032	1.015	1.015	1.015
0.7333	1.561	1.758	1.880	1.911	1.911	1.911
0.7467	1.063	1.053	1.032	1.015	1.015	1.015
0.7600	1.561	1.758	1.880	1.911	1.911	1.911
0.7733	1.063	1.053	1.032	1.015	1.015	1.015
0.7867	1.561	1.758	1.880	1.911	1.911	1.911
0.8000	1.063	1.053	1.032	1.015	1.015	1.015
0.8133	1.561	1.758	1.880	1.911	1.911	1.911
0.8267	1.063	1.053	1.032	1.015	1.015	1.015
0.8400	1.561	1.758	1.880	1.911	1.911	1.911
0.8533	1.063	1.053	1.032	1.015	1.015	1.015
0.8667	1.561	1.758	1.880	1.911	1.911	1.911
0.8800	1.063	1.053	1.032	1.015	1.015	1.015
0.8933	1.561	1.758	1.880	1.911	1.911	1.911
0.9067	1.063	1.053	1.032	1.015	1.015	1.015
0.9200	1.561	1.758	1.880	1.911	1.911	1.911
0.9333	1.063	1.053	1.032	1.015	1.015	1.015
0.9467	1.561	1.758	1.880	1.911	1.911	1.911
0.9600	1.063	1.053	1.032	1.015	1.015	1.015
0.9733	1.561	1.758	1.880	1.911	1.911	1.911
0.9867	1.063	1.053	1.032	1.015	1.015	1.015
1.0000	1.561	1.758	1.880	1.911	1.911	1.911

TABLE 17. - PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.

 $(\delta_f = 20^\circ; \delta_r = -20^\circ)$ 

M=0.60						
$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	1.448	1.120	1.709	2.017	2.336	2.027
.0100	1.278	2.652	2.244	2.124	2.083	1.876
.0200	1.117	1.684	2.516	1.419	1.587	1.370
.0300	1.274	1.827	2.703	2.107	2.081	1.872
.0400	1.138	1.838	2.662	2.441	1.466	1.420
.0500	1.266	1.639	2.110	2.072	2.088	1.875
.0600	1.160	1.918	1.754	1.636	1.557	1.489
.0700	1.280	1.538	1.998	2.034	2.056	1.877
.0800	1.185	1.014	1.887	1.774	1.709	1.641
.0900	1.301	1.485	1.846	1.970	2.016	1.861
.1000	1.182	1.041	1.731	1.941	1.786	1.723
.1100	1.378	1.476	1.923	1.921	1.986	1.855
.1200	1.159	1.055	1.869	1.891	1.851	1.801
.1300	1.377	1.484	1.628	1.891	1.951	1.839
.1400	1.129	1.033	1.969	1.906	1.880	1.849
.1500	1.402	1.477	1.572	1.888	1.914	1.813
.1600	1.049	1.002	1.947	1.906	1.890	1.869
.1700	1.414	1.467	1.533	1.801	1.883	1.786
.1800	1.275	1.940	1.898	1.871	1.870	1.855
.1900	1.414	1.450	1.503	1.766	1.859	1.776
.2000	1.241	1.907	1.875	1.863	1.858	1.853
.2100	1.321	1.428	1.940	1.728	1.854	1.779
.2200	1.084	1.847	1.826	1.813	1.815	1.810
.2300	1.484	1.503	1.511	1.702	1.837	1.771
.2400	1.492	1.505	1.505	1.689	1.830	1.764
.2500	1.283	1.791	1.876	1.798	1.878	1.815
.2600	1.697	1.525	1.514	1.678	1.825	1.769
.2700	1.697	1.716	1.698	1.687	1.694	1.686
.2800	1.724	1.654	1.654	1.646	1.688	1.775
.2900	1.133	1.587	1.548	1.669	1.786	1.761
.3000	1.675	1.701	1.679	1.669	1.680	1.675
.3100	1.460	1.405	1.426	1.583	1.766	1.748
.3200	1.878	1.781	1.870	1.794	1.801	1.801
.3300	1.878	1.834	1.822	1.531	1.731	1.735
.3400	1.883	1.876	1.861	1.862	1.905	1.912
.3500	1.247	1.301	1.270	1.496	1.722	1.722
.3600	1.213	1.956	1.945	1.899	1.722	1.722
.3700	1.180	1.268	1.268	1.462	1.708	1.726
.3800	1.060	1.059	1.054	1.473	1.458	1.458
.3900	1.133	1.072	1.059	1.473	1.678	1.715
.4000	1.104	1.210	1.216	1.244	1.376	1.424
.4100	1.058	1.263	1.238	1.257	1.589	1.695
.4200	1.468	1.495	1.520	1.577	1.781	1.877
.4300	1.003	1.203	1.238	1.386	1.610	1.677
.4400	1.013	1.246	1.254	1.401	1.669	1.699
.4500	1.273	1.317	1.358	1.538	1.772	1.846
.4600	1.033	1.214	1.232	1.377	1.700	1.743
.4700	1.043	1.199	1.232	1.458	1.710	1.772
.4800	1.053	1.126	1.114	1.328	1.632	1.691
.4900	1.058	1.112	1.144	1.348	1.665	1.746

M=0.80						
$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	1.504	1.888	1.319	1.684	2.033	2.080
.0100	1.261	2.488	2.964	2.244	2.102	1.942
.0200	1.261	1.803	1.596	2.496	2.438	1.466
.0300	1.318	2.020	2.050	2.345	2.127	1.954
.0400	1.265	1.945	1.790	2.625	2.535	1.462
.0500	1.323	1.716	2.676	2.243	2.127	1.962
.0600	1.299	1.016	1.835	2.712	2.620	1.538
.0700	1.344	1.641	2.405	2.199	2.073	1.928
.0800	1.336	1.106	1.957	2.855	2.763	1.680
.0900	1.379	1.603	1.784	2.121	2.041	1.917
.1000	1.374	1.403	1.741	2.926	2.847	1.763
.1100	1.374	1.701	1.741	2.065	2.015	1.904
.1200	1.283	1.154	1.705	2.978	2.913	1.843
.1300	1.468	1.614	1.665	2.016	1.978	1.883
.1400	1.457	1.386	1.644	2.937	2.937	1.873
.1500	1.455	1.605	1.645	1.967	1.943	1.873
.1600	1.424	1.072	1.640	2.977	2.933	1.860
.1700	1.498	1.005	1.964	1.937	1.911	1.877
.1800	1.498	1.576	1.623	1.895	1.897	1.855
.1900	1.498	1.930	1.915	1.915	1.894	1.861
.2000	1.498	1.966	1.882	1.892	1.860	1.860
.2100	1.462	1.540	1.868	1.868	1.844	1.816
.2200	1.574	1.615	1.871	1.871	1.888	1.856
.2300	1.563	1.133	1.858	1.858	1.875	1.848
.2400	1.603	1.630	1.836	1.836	1.854	1.827
.2500	1.740	1.770	1.747	1.825	1.816	1.800
.2600	1.780	1.780	1.780	1.801	1.844	1.845
.2700	1.630	1.560	1.560	1.801	1.844	1.845
.2800	1.784	1.784	1.784	1.801	1.844	1.845
.2900	1.784	1.784	1.784	1.801	1.844	1.845
.3000	1.784	1.784	1.784	1.801	1.844	1.845
.3100	1.784	1.784	1.784	1.801	1.844	1.845
.3200	1.784	1.784	1.784	1.801	1.844	1.845
.3300	1.784	1.784	1.784	1.801	1.844	1.845
.3400	1.784	1.784	1.784	1.801	1.844	1.845
.3500	1.784	1.784	1.784	1.801	1.844	1.845
.3600	1.784	1.784	1.784	1.801	1.844	1.845
.3700	1.784	1.784	1.784	1.801	1.844	1.845
.3800	1.784	1.784	1.784	1.801	1.844	1.845
.3900	1.784	1.784	1.784	1.801	1.844	1.845
.4000	1.784	1.784	1.784	1.801	1.844	1.845
.4100	1.784	1.784	1.784	1.801	1.844	1.845
.4200	1.784	1.784	1.784	1.801	1.844	1.845
.4300	1.784	1.784	1.784	1.801	1.844	1.845
.4400	1.784	1.784	1.784	1.801	1.844	1.845
.4500	1.784	1.784	1.784	1.801	1.844	1.845
.4600	1.784	1.784	1.784	1.801	1.844	1.845
.4700	1.784	1.784	1.784	1.801	1.844	1.845
.4800	1.784	1.784	1.784	1.801	1.844	1.845
.4900	1.784	1.784	1.784	1.801	1.844	1.845

M=0.90						
$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	1.555	2.718	1.037	1.392	2.532	2.532
.0100	1.233	2.240	2.506	2.532	2.565	2.565
.0200	1.380	2.903	2.694	2.694	2.702	2.702
.0300	1.373	1.035	2.839	2.702	2.702	2.702
.0400	1.339	1.828	2.371	2.494	2.494	2.494
.0500	1.413	1.110	1.931	2.790	2.790	2.790
.0600	1.368	1.675	2.266	2.378	2.378	2.378
.0700	1.454	1.217	1.051	2.928	2.928	2.928
.0800	1.407	1.665	2.190	2.309	2.309	2.309
.0900	1.421	1.247	1.155	2.002	2.002	2.002
.1000	1.458	1.666	1.877	2.178	2.178	2.178
.1100	1.421	1.261	1.151	2.051	2.051	2.051
.1200	1.558	1.700	1.922	2.048	2.048	2.048
.1300	1.324	1.212	1.133	2.055	2.055	2.055
.1400	1.563	1.721	1.880	2.199	2.199	2.199
.1500	1.153	1.143	1.086	1.027	1.027	1.027
.1600	1.568	1.732	1.893	2.199	2.199	2.199
.1700	1.091	1.059	1.020	1.027	1.027	1.027
.1800	1.538	1.700	1.820	2.192	2.192	2.192
.1900	1.038	1.032	1.983	1.949	1.949	1.949
.2000	1.454	1.622	1.763	1.883	1.883	1.883
.2100	1.949	1.937	1.912	1.888	1.888	1.888
.2200	1.572	1.727	1.840	1.896	1.896	1.896
.2300	1.576	1.731	1.841	1.898	1.898	1.898
.2400	1.877	1.870	1.849	1.826	1.826	1.826
.2500	1.595	1.745	1.856	1.895	1.895	1.895
.2600	1.800	1.825	1.956	1.926	1.926	1.926
.2700	1.957	1.692	1.930	1.914	1.914	1.914
.2800	1.792	1.796	1.772	1.743	1.743	1.743
.2900	1.859	1.844	1.832	1.877	1.877	1.877
.3000	1.818	1.643	1.815	1.840	1.840	1.840
.3100	1.723	1.923	1.820	1.829	1.829	1.829
.3200	1.789	1.668	1.680	1.682	1.682	1.682
.3300	1.032	1.011	1.006	1.006	1.006	1.006
.3400	1.759	1.675	1.652	1.652	1.652	1.652
.3500	1.734	1.115	1.110	1.098	1.098	1.098
.3600	1.723	1.661	1.629	1.613	1.613	1.613
.3700	1.268	1.253	1.249	1.244	1.244	1.244
.3800	1.868	1.648	1.790	1.790	1.790	1.790
.3900	1.484	1.486	1.484	1.479	1.479	1.479
.4000	1.555	1.589	1.692	1.731	1.731	1.731
.4100	1.633	1.631	1.759	1.759	1.759	1.759
.4200	1.027	1.025	1.889	2.229	2.229	2.229
.4300	1.621	1.636	1.778	1.792	1.792	1.792
.4400	1.459	1.704	1.763	2.144	2.144	2.144
.4500	1.517	1.615	1.768	2.144	2.144	2.144
.4600	1.421	1.644	1.804	1.841	1.841	1.841

M=0.93						
$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	1.571	2.705	1.037	1.392	2.532	2.532
.0100	1.243	2.181	2.506	2.532	2.565	2.565



TABLE 18. - PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.  
( $\delta_1=30^\circ$ ;  $\delta_2=0^\circ$ )

$\frac{x}{c}$ (a)	M=0.60					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
-0.0000	1.4659	1.8559	1.8477	2.0311	2.1172	1.9577
-0.0100	1.4559	1.7771	1.7399	2.0173	1.9532	1.8900
-0.0200	1.4459	1.6983	1.6611	1.9934	1.9293	1.8660
-0.0300	1.4359	1.6195	1.5823	1.9695	1.9054	1.8421
-0.0400	1.4259	1.5407	1.5035	1.9456	1.8815	1.7982
-0.0500	1.4159	1.4619	1.4247	1.9217	1.8576	1.7543
-0.0600	1.4059	1.3831	1.3459	1.8978	1.8337	1.7105
-0.0700	1.3959	1.3043	1.2671	1.8739	1.8098	1.6667
-0.0800	1.3859	1.2255	1.1883	1.8500	1.7859	1.6229
-0.0900	1.3759	1.1467	1.1095	1.8261	1.7620	1.5791
-0.1000	1.3659	1.0679	1.0307	1.8022	1.7381	1.5353
-0.1100	1.3559	0.9891	0.9519	1.7783	1.7142	1.4915
-0.1200	1.3459	0.9103	0.8731	1.7544	1.6903	1.4477
-0.1300	1.3359	0.8315	0.7943	1.7305	1.6664	1.4039
-0.1400	1.3259	0.7527	0.7155	1.7066	1.6425	1.3601
-0.1500	1.3159	0.6739	0.6367	1.6827	1.6186	1.3163
-0.1600	1.3059	0.5951	0.5579	1.6588	1.5947	1.2725
-0.1700	1.2959	0.5163	0.4791	1.6349	1.5708	1.2287
-0.1800	1.2859	0.4375	0.4003	1.6110	1.5469	1.1849
-0.1900	1.2759	0.3587	0.3215	1.5871	1.5230	1.1411
-0.2000	1.2659	0.2799	0.2427	1.5632	1.4991	1.0973
-0.2100	1.2559	0.2011	0.1639	1.5393	1.4752	1.0535
-0.2200	1.2459	0.1223	0.0857	1.5154	1.4513	1.0097
-0.2300	1.2359	0.0435	0.0065	1.4915	1.4274	0.9659
-0.2400	1.2259	-0.0353	-0.0727	1.4676	1.4035	0.9221
-0.2500	1.2159	-0.1165	-0.1539	1.4437	1.3796	0.8783
-0.2600	1.2059	-0.1977	-0.2351	1.4198	1.3557	0.8345
-0.2700	1.1959	-0.2789	-0.3163	1.3959	1.3318	0.7907
-0.2800	1.1859	-0.3601	-0.3975	1.3720	1.3079	0.7469
-0.2900	1.1759	-0.4413	-0.4787	1.3481	1.2840	0.7031
-0.3000	1.1659	-0.5225	-0.5599	1.3242	1.2601	0.6593
-0.3100	1.1559	-0.6037	-0.6411	1.3003	1.2362	0.6155
-0.3200	1.1459	-0.6849	-0.7223	1.2764	1.2123	0.5717
-0.3300	1.1359	-0.7661	-0.8035	1.2525	1.1884	0.5279
-0.3400	1.1259	-0.8473	-0.8847	1.2286	1.1645	0.4841
-0.3500	1.1159	-0.9285	-0.9659	1.2047	1.1406	0.4403
-0.3600	1.1059	-1.0097	-1.0471	1.1808	1.1167	0.3965
-0.3700	1.0959	-1.0909	-1.1283	1.1569	1.0928	0.3527
-0.3800	1.0859	-1.1721	-1.2095	1.1330	1.0689	0.3089
-0.3900	1.0759	-1.2533	-1.2907	1.1091	1.0450	0.2651
-0.4000	1.0659	-1.3345	-1.3719	1.0852	1.0211	0.2213
-0.4100	1.0559	-1.4157	-1.4531	1.0613	0.9972	0.1775
-0.4200	1.0459	-1.4969	-1.5343	1.0374	0.9733	0.1337
-0.4300	1.0359	-1.5781	-1.6155	1.0135	0.9494	0.0899
-0.4400	1.0259	-1.6593	-1.6967	0.9896	0.9255	0.0461
-0.4500	1.0159	-1.7405	-1.7779	0.9657	0.9016	0.0023
-0.4600	1.0059	-1.8217	-1.8591	0.9418	0.8777	-0.0415
-0.4700	0.9959	-1.9029	-1.9403	0.9179	0.8538	-0.0853
-0.4800	0.9859	-1.9841	-2.0215	0.8940	0.8299	-0.1291
-0.4900	0.9759	-2.0653	-2.1027	0.8701	0.8060	-0.1729
-0.5000	0.9659	-2.1465	-2.1839	0.8462	0.7821	-0.2167
-0.5100	0.9559	-2.2277	-2.2651	0.8223	0.7582	-0.2605
-0.5200	0.9459	-2.3089	-2.3463	0.7984	0.7343	-0.3043
-0.5300	0.9359	-2.3901	-2.4275	0.7745	0.7104	-0.3481
-0.5400	0.9259	-2.4713	-2.5087	0.7506	0.6865	-0.3919
-0.5500	0.9159	-2.5525	-2.5899	0.7267	0.6626	-0.4357
-0.5600	0.9059	-2.6337	-2.6711	0.7028	0.6387	-0.4795
-0.5700	0.8959	-2.7149	-2.7523	0.6789	0.6148	-0.5233
-0.5800	0.8859	-2.7961	-2.8335	0.6550	0.5909	-0.5671
-0.5900	0.8759	-2.8773	-2.9147	0.6311	0.5670	-0.6109
-0.6000	0.8659	-2.9585	-2.9959	0.6072	0.5431	-0.6547
-0.6100	0.8559	-3.0397	-3.0771	0.5833	0.5192	-0.6985
-0.6200	0.8459	-3.1209	-3.1583	0.5594	0.4953	-0.7423
-0.6300	0.8359	-3.2021	-3.2395	0.5355	0.4714	-0.7861
-0.6400	0.8259	-3.2833	-3.3207	0.5116	0.4475	-0.8299
-0.6500	0.8159	-3.3645	-3.4019	0.4877	0.4236	-0.8737
-0.6600	0.8059	-3.4457	-3.4831	0.4638	0.3997	-0.9175
-0.6700	0.7959	-3.5269	-3.5643	0.4399	0.3758	-0.9613
-0.6800	0.7859	-3.6081	-3.6455	0.4160	0.3519	-1.0051
-0.6900	0.7759	-3.6893	-3.7267	0.3921	0.3280	-1.0489
-0.7000	0.7659	-3.7705	-3.8079	0.3682	0.3041	-1.0927
-0.7100	0.7559	-3.8517	-3.8891	0.3443	0.2802	-1.1365
-0.7200	0.7459	-3.9329	-3.9703	0.3204	0.2563	-1.1803
-0.7300	0.7359	-4.0141	-4.0515	0.2965	0.2324	-1.2241
-0.7400	0.7259	-4.0953	-4.1327	0.2726	0.2085	-1.2679
-0.7500	0.7159	-4.1765	-4.2139	0.2487	0.1846	-1.3117
-0.7600	0.7059	-4.2577	-4.2951	0.2248	0.1607	-1.3555
-0.7700	0.6959	-4.3389	-4.3763	0.2009	0.1368	-1.3993
-0.7800	0.6859	-4.4201	-4.4575	0.1770	0.1129	-1.4431
-0.7900	0.6759	-4.5013	-4.5387	0.1531	0.0890	-1.4869
-0.8000	0.6659	-4.5825	-4.6201	0.1292	0.0651	-1.5307
-0.8100	0.6559	-4.6637	-4.7013	0.1053	0.0412	-1.5745
-0.8200	0.6459	-4.7449	-4.7827	0.0814	0.0173	-1.6183
-0.8300	0.6359	-4.8261	-4.8639	0.0575	-0.0066	-1.6621
-0.8400	0.6259	-4.9073	-4.9451	0.0336	-0.0307	-1.7059
-0.8500	0.6159	-4.9885	-5.0263	0.0097	-0.0568	-1.7497
-0.8600	0.6059	-5.0697	-5.1075	-0.0142	-0.0829	-1.7935
-0.8700	0.5959	-5.1509	-5.1887	-0.0383	-0.1090	-1.8373
-0.8800	0.5859	-5.2321	-5.2699	-0.0624	-0.1351	-1.8811
-0.8900	0.5759	-5.3133	-5.3507	-0.0865	-0.1612	-1.9249
-0.9000	0.5659	-5.3945	-5.4323	-0.1106	-0.1873	-1.9687
-0.9100	0.5559	-5.4757	-5.5135	-0.1347	-0.2134	-2.0125
-0.9200	0.5459	-5.5569	-5.5951	-0.1588	-0.2395	-2.0563
-0.9300	0.5359	-5.6381	-5.6763	-0.1829	-0.2656	-2.1001
-0.9400	0.5259	-5.7193	-5.7575	-0.2070	-0.2917	-2.1439
-0.9500	0.5159	-5.8005	-5.8387	-0.2311	-0.3178	-2.1877
-0.9600	0.5059	-5.8817	-5.9199	-0.2552	-0.3439	-2.2315
-0.9700	0.4959	-5.9629	-6.0011	-0.2793	-0.3700	-2.2753
-0.9800	0.4859	-6.0441	-6.0823	-0.3034	-0.3961	-2.3191
-0.9900	0.4759	-6.1253	-6.1635	-0.3275	-0.4222	-2.3629
-1.0000	0.4659	-6.2065	-6.2447	-0.3516	-0.4483	-2.4067

$M=0.80$						
$\frac{x}{c}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
-0.0000	1.4944	1.8668	1.8300	1.6996	1.9774	1.9774
-0.0100	1.3700	2.6224	2.8660	2.2224	2.0773	2.0773
-0.0200	1.1558	1.7753	2.7725	2.4728	2.4728	2.4728
-0.0300	1.1387	2.4430	2.7850	2.2332	2.1200	2.1200
-0.0400	1.1293	2.8990	2.7155	2.5921	2.5099	2.5099
-0.0500	1.1199	1.7681	2.6801	2.6774	2.0976	2.0976
-0.0600	1.1105	1.6999	2.4944	2.1899	2.0217	2.0217
-0.0700	1.1011	1.0533	1.9948	2.7933	2.7777	2.7777
-0.0800	1.0917	1.1211	0.9553	2.8553	2.7778	2.7778
-0.0900	1.0823	1.1673	1.7444	2.0550	1.9567	1.9567
-0.1000	1.0729	1.1511	1.7811	2.8553	2.8553	2.8553
-0.1100	1.0635	1.1688	1.7735	2.0110	1.9335	1.9335
-0.1200	1.0541	1.2985	1.9117	1.8653	1.8111	1.8111
-0.1300	1.0447	1.9901	1.8850	1.8114	1.7778	1.7778
-0.1400	1.0353	1.6776	1.7980	1.9442	1.8884	1.8884
-0.1500	1.0259	1.8697	1.8860	1.8665	1.8660	1.8660
-0.1600	1.0165	1.5449	1.8653	1.9222	1.8755	1.8755
-0.1700	1.0071	1.7577	1.7233	1.7099	1.6990	1.6990
-0.1800	0.9977	1.6333	1.7688	1.9222	1.8770	1.8770
-0.1900	0.9883	1.7055	1.6558	1.6446	1.6730	1.6730
-0.2000	0.9789	1.6338	1.8332	1.8996	1.8554	1.8554
-0.2100	0.9695	1.7332	1.8841	1.8885	1.8445	1.8445
-0.2200	0.9601	1.6599	1.6223	1.6044	1.5880	1.5880
-0.2300	0.9507	1.7706	1.8886	1.8831	1.8445	1.8445
-0.2400	0.9413	1.6511	1.6112	1.5933	1.5665	1.5665
-0.2500	0.9319	1.7772	1.9966	1.8665	1.8338	1.8338
-0.2600	0.9225	1.7944	1.9935	1.8111	1.7976	1.7976
-0.2700	0.9131	1.6233	1.6006	1.5844	1.5555	1.5555
-0.2800	0.9037	1.7774	1.8889	1.8842	1.8220	1.8220
-0.2900	0.8943	1.6613	1.5923	1.5886	1.5707	1.5707
-0.3000	0.8849	1.7411	1.7833	1.8833	1.8445	1.8445
-0.3100	0.8755	1.6599	1.6339	1.6441	1.6302	1.6302
-0.3200	0.8661	1.7733	1.9839	1.8111	1.8024	1.8024
-0.3300	0.8567	1.7737	1.7744	1.7744	1.7744	1.7744
-0.3400	0.8473	1.7227	1.8229	1.8111	1.7994	1.7994
-0.3500	0.8379	1.8200	1.7887	1.8011	1.7889	1.7889
-0.3600	0.8285	1.6672	1.8183	1.8884	1.8445	1.8445
-0.3700	0.8191	1.9033	1.8871	1.7994	1.7880	1.7880
-0.3800	0.8097	1.6693	1.7887	1.7884	1.7844	1.7844
-0.3900	0.8003	1.9990	1.9557	1.9988	1.9988	1.9988
-0.4000	0.7909	1.7448	1.7992	1.7992	1.7992	1.7992
-0.4100	0.7815	1.7244	1.6885	1.7777	1.7794	1.7787
-0.4200	0.7721	1.0766	1.0662	1.0703	1.0701	1.0664
-0.4300	0.7627	1.7739	1.7739	1.7739	1.7739	1.7739
-0.4400	0.7533	1.2448	1.2230	1.2209	1.2358	1.2554
-0.4500	0.7439	1.6551	1.6335	1.6297	1.7772	1.7772
-0.4600	0.7345	1.5539	1.5433	1.5363	1.6444	1.6443

TABLE 19. - PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.  
 $(\delta_f=30^\circ; \delta_r=20^\circ)$

M=0.60

M=0.80

$\frac{X}{C}$ (a)		S					
		$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
0.0000	1.502	1.345	1.290	2.019	2.146	1.622	2.019
0.0100	1.542	1.373	1.318	2.073	2.197	1.652	2.073
0.0200	1.586	1.402	1.347	2.127	2.248	1.682	2.127
0.0300	1.630	1.432	1.377	2.181	2.299	1.712	2.181
0.0400	1.674	1.462	1.407	2.235	2.350	1.742	2.235
0.0500	1.718	1.492	1.437	2.289	2.401	1.772	2.289
0.0600	1.762	1.522	1.467	2.343	2.452	1.802	2.343
0.0700	1.806	1.552	1.497	2.397	2.503	1.832	2.397
0.0800	1.850	1.582	1.527	2.451	2.554	1.862	2.451
0.0900	1.894	1.612	1.557	2.505	2.605	1.892	2.505
0.1000	1.938	1.642	1.587	2.559	2.656	1.922	2.559
0.1100	1.982	1.672	1.617	2.613	2.707	1.952	2.613
0.1200	2.026	1.702	1.647	2.667	2.758	1.982	2.667
0.1300	2.070	1.732	1.677	2.721	2.809	2.012	2.721
0.1400	2.114	1.762	1.707	2.775	2.860	2.042	2.775
0.1500	2.158	1.792	1.737	2.829	2.911	2.072	2.829
0.1600	2.202	1.822	1.767	2.883	2.962	2.102	2.883
0.1700	2.246	1.852	1.797	2.937	3.013	2.132	2.937
0.1800	2.290	1.882	1.827	2.991	3.064	2.162	2.991
0.1900	2.334	1.912	1.857	3.045	3.115	2.192	3.045
0.2000	2.378	1.942	1.887	3.099	3.166	2.222	3.099
0.2100	2.422	1.972	1.917	3.153	3.217	2.252	3.153
0.2200	2.466	2.002	1.947	3.207	3.268	2.282	3.207
0.2300	2.510	2.032	1.977	3.261	3.319	2.312	3.261
0.2400	2.554	2.062	2.007	3.315	3.370	2.342	3.315
0.2500	2.598	2.092	2.037	3.369	3.421	2.372	3.369
0.2600	2.642	2.122	2.067	3.423	3.472	2.402	3.423
0.2700	2.686	2.152	2.097	3.477	3.523	2.432	3.477
0.2800	2.730	2.182	2.127	3.531	3.574	2.462	3.531
0.2900	2.774	2.212	2.157	3.585	3.625	2.492	3.585
0.3000	2.818	2.242	2.187	3.639	3.676	2.522	3.639
0.3100	2.862	2.272	2.217	3.693	3.727	2.552	3.693
0.3200	2.906	2.302	2.247	3.747	3.778	2.582	3.747
0.3300	2.950	2.332	2.277	3.801	3.829	2.612	3.801
0.3400	2.994	2.362	2.307	3.855	3.880	2.642	3.855
0.3500	3.038	2.392	2.337	3.909	3.931	2.672	3.909
0.3600	3.082	2.422	2.367	3.963	3.982	2.702	3.963
0.3700	3.126	2.452	2.397	4.017	4.033	2.732	4.017
0.3800	3.170	2.482	2.427	4.071	4.084	2.762	4.071
0.3900	3.214	2.512	2.457	4.125	4.135	2.792	4.125
0.4000	3.258	2.542	2.487	4.179	4.186	2.822	4.179
0.4100	3.302	2.572	2.517	4.233	4.237	2.852	4.233
0.4200	3.346	2.602	2.547	4.287	4.288	2.882	4.287
0.4300	3.390	2.632	2.577	4.341	4.339	2.912	4.341
0.4400	3.434	2.662	2.607	4.395	4.390	2.942	4.395
0.4500	3.478	2.692	2.637	4.449	4.441	2.972	4.449
0.4600	3.522	2.722	2.667	4.503	4.492	3.002	4.503
0.4700	3.566	2.752	2.697	4.557	4.543	3.032	4.557
0.4800	3.610	2.782	2.727	4.611	4.594	3.062	4.611
0.4900	3.654	2.812	2.757	4.665	4.645	3.092	4.665
0.5000	3.698	2.842	2.787	4.719	4.696	3.122	4.719
0.5100	3.742	2.872	2.817	4.773	4.747	3.152	4.773
0.5200	3.786	2.902	2.847	4.827	4.798	3.182	4.827
0.5300	3.830	2.932	2.877	4.881	4.849	3.212	4.881
0.5400	3.874	2.962	2.907	4.935	4.900	3.242	4.935
0.5500	3.918	2.992	2.937	4.989	4.951	3.272	4.989
0.5600	3.962	3.022	2.967	5.043	5.002	3.302	5.043
0.5700	4.006	3.052	2.997	5.097	5.053	3.332	5.097
0.5800	4.050	3.082	3.027	5.151	5.104	3.362	5.151
0.5900	4.094	3.112	3.057	5.205	5.155	3.392	5.205
0.6000	4.138	3.142	3.087	5.259	5.206	3.422	5.259

$\frac{X}{C}$ (a)		S					
		$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
0.0000	1.509	1.303	1.2389	1.7277	2.067	1.509	2.067
0.0100	1.408	1.246	1.1866	1.6251	1.951	1.408	1.951
0.0200	1.318	1.190	1.1349	1.5281	1.836	1.318	1.836
0.0300	1.231	1.134	1.0809	1.4371	1.721	1.231	1.721
0.0400	1.148	1.080	1.0289	1.3521	1.606	1.148	1.606
0.0500	1.071	1.027	0.9789	1.2731	1.491	1.071	1.491
0.0600	1.000	0.976	0.9309	1.2001	1.376	1.000	1.376
0.0700	0.935	0.922	0.8789	1.1331	1.261	0.935	1.261
0.0800	0.876	0.864	0.8209	1.0721	1.146	0.876	1.146
0.0900	0.823	0.811	0.7689	1.0171	1.031	0.823	1.031
0.1000	0.775	0.763	0.7209	0.9681	0.916	0.775	0.916
0.1100	0.732	0.720	0.6789	0.9251	0.801	0.732	0.801
0.1200	0.694	0.682	0.6409	0.8881	0.686	0.694	0.686
0.1300	0.661	0.649	0.6079	0.8571	0.571	0.661	0.571
0.1400	0.633	0.621	0.5799	0.8321	0.456	0.633	0.456
0.1500	0.610	0.598	0.5569	0.8131	0.341	0.610	0.341
0.1600	0.592	0.580	0.5389	0.8001	0.226	0.592	0.226
0.1700	0.578	0.566	0.5249	0.7931	0.111	0.578	0.111
0.1800	0.568	0.556	0.5149	0.7921	0.000	0.568	0.000
0.1900	0.562	0.550	0.5089	0.7971	-0.111	0.562	-0.111
0.2000	0.560	0.548	0.5079	0.8001	-0.226	0.560	-0.226
0.2100	0.562	0.550	0.5099	0.8031	-0.341	0.562	-0.341
0.2200	0.567	0.555	0.5139	0.8071	-0.456	0.567	-0.456
0.2300	0.575	0.563	0.5209	0.8121	-0.571	0.575	-0.571
0.2400	0.586	0.574	0.5309	0.8181	-0.686	0.586	-0.686
0.2500	0.600	0.588	0.5439	0.8251	-0.801	0.600	-0.801
0.2600	0.617	0.605	0.5589	0.8331	-0.916	0.617	-0.916
0.2700	0.637	0.625	0.5759	0.8421	-1.031	0.637	-1.031
0.2800	0.660	0.648	0.5939	0.8521	-1.146	0.660	-1.146
0.2900	0.686	0.674	0.6129	0.8631	-1.261	0.686	-1.261
0.3000	0.715	0.703	0.6399	0.8751	-1.376	0.715	-1.376
0.3100	0.747	0.735	0.6679	0.8881	-1.491	0.747	-1.491
0.3200	0.782	0.770	0.6979	0.9021	-1.606	0.782	-1.606
0.3300	0.820	0.808	0.7269	0.9171	-1.721	0.820	-1.721
0.3400	0.860	0.848	0.7669	0.9331	-1.836	0.860	-1.836
0.3500	0.902	0.890	0.7889	0.9501	-1.951	0.902	-1.951
0.3600	0.946	0.934	0.8109	0.9681	-2.067	0.946	-2.067
0.3700	0.992	0.980	0.8339	0.9871	-2.182	0.992	-2.182
0.3800	1.040	1.028	0.8579	1.0071	-2.297	1.040	-2.297
0.3900	1.090	1.078	0.8829	1.0281	-2.412	1.090	-2.412
0.4000	1.142	1.130	0.9089	1.0501	-2.527	1.142	-2.527
0.4100	1.196	1.184	0.9359	1.0731	-2.642	1.196	-2.642
0.4200	1.252	1.240	0.9639	1.0971	-2.757	1.252	-2.757
0.4300	1.310	1.298	0.9929	1.1221	-2.872	1.310	-2.872
0.4400	1.370	1.358	1.0239	1.1481	-2.987	1.370	-2.987
0.4500	1.432	1.410	1.0559	1.1751	-3.102	1.432	-3.102
0.4600	1.496	1.474	1.0889	1.2031	-3.217	1.496	-3.217
0.4700	1.562	1.540	1.1229	1.2321	-3.332	1.562	-3.332
0.4800	1.630	1.608	1.1579	1.2621	-3.447	1.630	-3.447
0.4900	1.700	1.678	1.1939	1.2931	-3.562	1.700	-3.562
0.5000	1.772	1.740	1.2309	1.3251	-3.677	1.772	-3.677
0.5100	1.846	1.814	1.2689	1.3581	-3.792	1.846	-3.792
0.5200	1.922	1.890	1.3079	1.3921	-3.907	1.922	-3.907
0.5300	2.000	1.968	1.3479	1.4271	-4.022	2.000	-4.022
0.5400	2.080	2.048	1.3889	1.4631	-4.137	2.080	-4.137
0.5500	2.162	2.120	1.4309	1.5001	-4.252	2.162	-4.252
0.5600	2.246	2.204	1.4739	1.5381	-4.367	2.246	-4.367
0.5700	2.332	2.280	1.5179	1.5771	-4.482	2.332	-4.482
0.5800	2.420	2.356	1.5629	1.6171	-4.597	2.420	-4.597
0.5900	2.510	2.432	1.6089	1.6581	-		

TABLE 2Q.- PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.

 $(\delta=30^\circ; \delta=-10^\circ)$ 

M=0.60

$\frac{x}{c}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	1.478	1.279	1.073	1.990	2.136	1.917
.0100	1.441	1.243	1.044	1.969	2.118	1.894
.0200	1.403	1.206	1.015	1.948	2.100	1.872
.0300	1.365	1.169	0.986	1.927	2.082	1.850
.0400	1.327	1.132	0.957	1.906	2.064	1.828
.0500	1.289	1.095	0.928	1.885	2.046	1.806
.0600	1.251	1.058	0.899	1.864	2.028	1.784
.0700	1.213	1.021	0.870	1.843	2.010	1.762
.0800	1.175	0.984	0.841	1.822	1.992	1.740
.0900	1.137	0.947	0.812	1.801	1.974	1.718
.1000	1.099	0.910	0.783	1.780	1.956	1.696
.1100	1.061	0.873	0.754	1.759	1.938	1.674
.1200	1.023	0.836	0.725	1.738	1.920	1.652
.1300	0.985	0.799	0.696	1.717	1.902	1.630
.1400	0.947	0.762	0.667	1.696	1.884	1.608
.1500	0.909	0.725	0.638	1.675	1.866	1.586
.1600	0.871	0.688	0.609	1.654	1.848	1.564
.1700	0.833	0.651	0.580	1.633	1.830	1.542
.1800	0.795	0.614	0.551	1.612	1.812	1.520
.1900	0.757	0.577	0.522	1.591	1.794	1.498
.2000	0.719	0.540	0.493	1.570	1.776	1.476
.2100	0.681	0.503	0.464	1.549	1.758	1.454
.2200	0.643	0.466	0.435	1.528	1.740	1.432
.2300	0.605	0.429	0.406	1.507	1.722	1.410
.2400	0.567	0.392	0.377	1.486	1.704	1.388
.2500	0.529	0.355	0.348	1.465	1.686	1.366
.2600	0.491	0.318	0.319	1.444	1.668	1.344
.2700	0.453	0.281	0.290	1.423	1.650	1.322
.2800	0.415	0.244	0.261	1.402	1.632	1.300
.2900	0.377	0.207	0.232	1.381	1.614	1.278
.3000	0.339	0.170	0.203	1.360	1.596	1.256
.3100	0.301	0.133	0.174	1.339	1.578	1.234
.3200	0.263	0.096	0.145	1.318	1.560	1.212
.3300	0.225	0.059	0.116	1.297	1.542	1.190
.3400	0.187	0.022	0.087	1.276	1.524	1.168
.3500	0.149	-0.015	0.058	1.255	1.506	1.146
.3600	0.111	-0.052	0.029	1.234	1.488	1.124
.3700	0.073	-0.089	-0.000	1.213	1.470	1.102
.3800	0.035	-0.126	-0.031	1.192	1.452	1.080
.3900	-0.003	-0.163	-0.062	1.171	1.434	1.058
.4000	-0.041	-0.199	-0.093	1.150	1.416	1.036
.4100	-0.079	-0.236	-0.124	1.129	1.398	1.014
.4200	-0.117	-0.273	-0.155	1.108	1.380	0.992
.4300	-0.155	-0.310	-0.186	1.087	1.362	0.970
.4400	-0.193	-0.347	-0.217	1.066	1.344	0.948
.4500	-0.231	-0.384	-0.248	1.045	1.326	0.926
.4600	-0.269	-0.421	-0.279	1.024	1.308	0.904
.4700	-0.307	-0.458	-0.310	1.003	1.290	0.882
.4800	-0.345	-0.495	-0.341	0.982	1.272	0.860
.4900	-0.383	-0.532	-0.372	0.961	1.254	0.838
.5000	-0.421	-0.569	-0.403	0.940	1.236	0.816
.5100	-0.459	-0.606	-0.434	0.919	1.218	0.794
.5200	-0.497	-0.643	-0.465	0.898	1.200	0.772
.5300	-0.535	-0.680	-0.496	0.877	1.182	0.750
.5400	-0.573	-0.717	-0.527	0.856	1.164	0.728
.5500	-0.611	-0.754	-0.558	0.835	1.146	0.706
.5600	-0.649	-0.791	-0.589	0.814	1.128	0.684
.5700	-0.687	-0.828	-0.620	0.793	1.110	0.662
.5800	-0.725	-0.865	-0.651	0.772	1.092	0.640
.5900	-0.763	-0.902	-0.682	0.751	1.074	0.618
.6000	-0.801	-0.939	-0.713	0.730	1.056	0.596
.6100	-0.839	-0.976	-0.744	0.709	1.038	0.574
.6200	-0.877	-1.013	-0.775	0.688	1.020	0.552
.6300	-0.915	-1.050	-0.806	0.667	1.002	0.530
.6400	-0.953	-1.087	-0.837	0.646	0.984	0.508
.6500	-0.991	-1.124	-0.868	0.625	0.966	0.486
.6600	-1.029	-1.161	-0.899	0.604	0.948	0.464
.6700	-1.067	-1.198	-0.930	0.583	0.930	0.442
.6800	-1.105	-1.235	-0.961	0.562	0.912	0.420
.6900	-1.143	-1.272	-0.992	0.541	0.894	0.398
.7000	-1.181	-1.309	-1.023	0.520	0.876	0.376
.7100	-1.219	-1.346	-1.054	0.499	0.858	0.354
.7200	-1.257	-1.383	-1.085	0.478	0.840	0.332
.7300	-1.295	-1.420	-1.116	0.457	0.822	0.310
.7400	-1.333	-1.457	-1.147	0.436	0.804	0.288
.7500	-1.371	-1.494	-1.178	0.415	0.786	0.266
.7600	-1.409	-1.531	-1.209	0.394	0.768	0.244
.7700	-1.447	-1.568	-1.240	0.373	0.750	0.222
.7800	-1.485	-1.605	-1.271	0.352	0.732	0.200
.7900	-1.523	-1.642	-1.302	0.331	0.714	0.178
.8000	-1.561	-1.679	-1.333	0.310	0.696	0.156
.8100	-1.599	-1.716	-1.364	0.289	0.678	0.134
.8200	-1.637	-1.753	-1.395	0.268	0.660	0.112
.8300	-1.675	-1.790	-1.426	0.247	0.642	0.090
.8400	-1.713	-1.827	-1.457	0.226	0.624	0.068
.8500	-1.751	-1.864	-1.488	0.205	0.606	0.046
.8600	-1.789	-1.901	-1.519	0.184	0.588	0.024
.8700	-1.827	-1.938	-1.550	0.163	0.570	0.002
.8800	-1.865	-1.975	-1.581	0.142	0.552	-0.020
.8900	-1.903	-2.012	-1.612	0.121	0.534	-0.042
.9000	-1.941	-2.049	-1.643	0.100	0.516	-0.064
.9100	-1.979	-2.086	-1.674	0.079	0.498	-0.086
.9200	-2.017	-2.123	-1.705	0.058	0.480	-0.108
.9300	-2.055	-2.160	-1.736	0.037	0.462	-0.130
.9400	-2.093	-2.197	-1.767	0.016	0.444	-0.152
.9500	-2.131	-2.234	-1.798	-0.005	0.426	-0.174
.9600	-2.169	-2.271	-1.829	-0.024	0.408	-0.196
.9700	-2.207	-2.308	-1.860	-0.043	0.390	-0.218
.9800	-2.245	-2.345	-1.891	-0.062	0.372	-0.240
.9900	-2.283	-2.382	-1.922	-0.081	0.354	-0.262
1.0000	-2.321	-2.419	-1.953	-0.100	0.336	-0.284

M=0.80

$\frac{x}{c}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	1.497	1.298	1.092	1.776	2.012	2.026
.0100	1.460	1.261	1.063	1.755	2.005	1.945
.0200	1.423	1.224	1.034	1.734	2.001	1.932
.0300	1.386	1.187	1.005	1.713	2.000	1.919
.0400	1.349	1.150	0.976	1.692	2.000	1.906
.0500	1.312	1.113	0.947	1.671	2.000	1.893
.0600	1.275	1.076	0.918	1.650	2.000	1.880
.0700	1.238	1.039	0.889	1.629	2.000	1.867
.0800	1.201	1.002	0.860	1.608	2.000	1.854
.0900	1.164	0.965	0.831	1.587	2.000	1.841
.1000	1.127	0.928	0.802	1.566	2.000	1.828
.1100	1.090	0.891	0.773	1.545	2.000	1.815
.1200	1.053	0.854	0.744	1.524	2.000	1.802
.1300	1.016	0.817	0.715	1.503	2.000	1.789
.1400	0.979	0.780	0.686	1.482	2.000	1.776
.1500	0.942	0.743	0.657	1.461	2.000	1.763
.1600	0.905	0.706	0.628	1.440	2.000	1.750
.1700	0.868	0.669	0.599	1.419	2.000	1.737
.1800	0.831	0.632	0.570	1.398	2.000	1.724
.1900	0.794	0.595	0.541	1.377	2.000	1.711
.2000	0.757	0.558	0.512	1.356	2.000	1.698
.2100	0.720	0.521	0.483	1.335	2.000	1.685
.2200	0.683	0.484	0.454	1.314	2.000	1.672
.2300	0.646	0.447	0.425	1.293	2.000	1.659
.2400	0.609	0.410	0.396	1.272	2.000	1.646
.2500	0.572	0.373	0.367	1.251	2.000	1.633
.2600	0.535	0.336	0.338	1.230	2.000	1.620
.2700	0.498	0.299	0.309	1.209	2.000	1.607
.2800	0.461	0.262	0.280	1.188	2.000	1.594
.2900	0.424	0.225	0.251	1.167	2.000	1.581
.3000	0.387	0.188	0.222	1.146	2.000	1.568
.3100	0.350	0.151	0.193	1.125	2.000	1.555
.3200	0.313	0.114	0.164	1.104	2.000	1.542
.3300	0.276	0.077	0.135	1.083	2.000	1.529
.3400	0.239	0.040	0.106	1.062	2.000	1.516
.3500	0.202	0.003	0.077	1.041	2.000	1.503
.3600	0.165	-0.034	0.048	1.020	2.000	1.490
.3700	0.128	-0.091	0.019	1.000	2.000	1.477
.3800	0.091	-0.148	-0.010	0.979	2.000	1.464
.3900	0.054	-0.205	-0.041	0.958	2.000	1.451
.4000	0.017	-0.262	-0.072	0.937	2.000	1.438
.4100	-0.020	-0.319	-0.103	0.916	2.000	1.425
.4200	-0.057	-0.376	-0.134	0.895	2.000	1.412
.4300	-0.094	-0.433	-0.165	0.874	2.000	1.399
.4400	-0.131	-0.490	-0.196	0.853	2.000	1.386
.4500	-0.168	-0.547	-0.227	0.832	2.000	1.373
.4600	-0.205	-0.604	-0.258	0.811	2.000	1.360
.4700	-0.242	-0.661	-0.289	0.790	2.000	1.347
.4800	-0.279	-0.718	-0.320	0.769	2.000	1.334
.4900	-0.316	-0.775	-0.351	0.748	2.000	1.321
.5000	-0.353	-0.832	-0.382	0.727	2.000	1.308
.5100	-0.390	-0.889	-0.413	0.706	2.000	1.295
.5200	-0.427	-0.946	-0.444	0.685	2.000	1.282
.5300	-0.464	-1.003	-0.475	0.664	2.000	1.269
.5400	-0.501	-1.060	-0.506	0.643	2.000	1.256
.5500	-0.538	-1.117	-0.537	0.622	2.000	1.243
.5600	-0.575	-1.174	-0.568	0.601	2.000	1.230

TABLE 21.- PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.  
 $(\delta_f = 30^\circ; \delta_r = -20^\circ)$

**M = 0.60**

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	1.469	1.395	1.759	2.245	2.361	2.210
0.0100	1.375	2.637	2.216	2.388	2.034	1.880
0.0200	1.063	1.656	4.499	2.409	3.74	3.65
0.0400	1.355	1.930	2.154	2.299	2.040	1.879
0.0600	1.101	1.807	2.637	2.526	4.454	4.409
0.0800	1.318	1.700	2.077	2.156	2.034	1.896
0.1000	1.125	1.495	7.31	2.52	5.32	4.43
0.1500	1.315	1.581	1.986	2.070	1.998	1.885
0.2133	1.143	1.982	8.51	7.57	6.77	6.19
0.2533	1.316	1.584	1.866	1.995	1.963	1.871
0.3033	1.130	1.999	1.888	1.820	1.742	1.693
0.3533	1.374	1.532	1.781	1.962	1.939	1.861
0.4167	1.094	1.993	1.904	1.855	1.799	1.752
0.4567	1.424	1.577	1.910	1.817	1.794	1.767
0.5067	1.015	1.952	1.884	1.848	1.805	1.771
0.5567	1.458	1.543	1.679	1.894	1.888	1.821
0.5867	1.946	1.891	1.841	1.817	1.799	1.799
0.6300	1.488	1.505	1.660	1.855	1.851	1.735
0.6500	1.854	1.817	1.772	1.763	1.755	1.735
0.6700	1.484	1.548	1.644	1.825	1.828	1.793
0.6800	1.807	1.771	1.742	1.731	1.721	1.710
0.6900	1.443	1.508	1.609	1.786	1.834	1.797
0.7100	1.788	1.699	1.674	1.782	1.781	1.753
0.7200	1.570	1.626	1.625	1.784	1.822	1.780
0.7300	1.501	1.605	1.605	1.769	1.811	1.775
0.7400	1.694	1.653	1.623	1.761	1.810	1.775
0.7500	1.613	1.646	1.667	1.761	1.809	1.782
0.7700	1.793	1.769	1.711	1.741	1.798	1.774
0.8100	1.827	1.746	1.689	1.732	1.785	1.761
0.8200	1.544	1.712	1.603	1.606	1.767	1.751
0.8533	1.617	1.617	1.605	1.613	1.619	1.611
0.8733	1.699	1.657	1.509	1.613	1.724	1.714
0.8833	1.703	1.682	1.606	1.613	1.724	1.714
0.9033	1.645	1.626	1.464	1.605	1.740	1.731
0.9133	1.810	1.806	1.789	1.810	1.841	1.830
0.9333	1.731	1.698	1.433	1.731	1.792	1.781
0.9433	1.930	1.923	1.904	1.945	1.979	1.977
0.9633	1.546	1.582	1.402	1.548	1.713	1.712
0.9733	1.493	1.598	1.493	1.598	1.713	1.712
0.9833	1.493	1.598	1.493	1.598	1.713	1.712
1.0000	1.493	1.598	1.493	1.598	1.713	1.712
1.0133	1.493	1.598	1.493	1.598	1.713	1.712
1.0233	1.493	1.598	1.493	1.598	1.713	1.712
1.0333	1.493	1.598	1.493	1.598	1.713	1.712
1.0433	1.493	1.598	1.493	1.598	1.713	1.712
1.0533	1.493	1.598	1.493	1.598	1.713	1.712
1.0583	1.277	1.371	1.277	1.479	1.713	1.736

**M = 0.80**

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	1.510	1.552	1.348	1.747	2.094	2.075
0.0100	1.322	2.496	2.900	2.281	2.085	1.957
0.0200	1.331	1.784	2.581	2.483	2.433	1.976
0.0400	1.356	2.094	2.856	2.882	2.113	1.974
0.0600	1.245	1.919	2.727	2.603	2.523	2.452
0.0800	1.355	1.745	2.684	2.293	2.103	1.975
0.1000	1.286	1.998	2.814	2.692	2.603	2.527
0.1500	1.368	1.654	2.559	2.248	2.058	1.940
0.2133	1.294	1.078	1.927	1.822	1.742	1.657
0.2533	1.298	1.619	1.849	2.143	2.025	1.913
0.3033	1.280	1.103	1.755	1.885	1.813	1.732
0.3533	1.446	1.625	1.751	2.076	1.998	1.908
0.4167	1.224	1.094	1.991	1.918	1.859	1.784
0.4567	1.224	1.641	1.884	2.029	1.964	1.884
0.5067	1.127	1.038	1.960	1.904	1.864	1.801
0.5567	1.530	1.641	1.683	1.984	1.937	1.870
0.5867	1.022	1.561	1.905	1.870	1.873	1.859
0.6300	1.549	1.639	1.717	1.951	1.909	1.857
0.6500	1.911	1.868	1.829	1.899	1.790	1.749
0.6700	1.545	1.625	1.727	1.919	1.892	1.855
0.6800	1.858	1.811	1.774	1.774	1.763	1.754
0.6900	1.501	1.590	1.698	1.909	1.899	1.852
0.7100	1.767	1.742	1.719	1.707	1.697	1.665
0.7200	1.653	1.672	1.651	1.633	1.633	1.616
0.7300	1.648	1.699	1.614	1.680	1.676	1.637
0.7400	1.725	1.701	1.675	1.656	1.644	1.614
0.7500	1.671	1.719	1.634	1.676	1.663	1.613
0.7700	1.662	1.684	1.655	1.636	1.633	1.599
0.7800	1.769	1.751	1.731	1.718	1.714	1.686
0.8100	1.624	1.609	1.741	1.630	1.654	1.629
0.8200	1.544	1.566	1.644	1.630	1.630	1.602
0.8533	1.604	1.596	1.718	1.614	1.614	1.582
0.8733	1.683	1.668	1.655	1.647	1.645	1.621
0.8833	1.671	1.730	1.731	1.717	1.717	1.684
0.9033	1.624	1.599	1.778	1.774	1.774	1.744
0.9133	1.777	1.847	1.836	1.841	1.841	1.813
0.9333	1.624	1.611	1.732	1.712	1.712	1.683
0.9433	1.008	1.980	1.965	1.970	1.970	1.933
0.9633	1.680	1.620	1.697	1.740	1.802	1.799
0.9733	1.193	1.172	1.151	1.151	1.151	1.134
0.9833	1.454	1.616	1.659	1.723	1.790	1.786
0.9933	1.485	1.482	1.467	1.484	1.503	1.471
1.0000	1.408	1.515	1.536	1.659	1.758	1.758
1.0133	1.408	1.515	1.536	1.659	1.758	1.758
1.0233	1.833	1.755	1.567	1.840	2.306	2.275
1.0333	1.674	1.603	1.571	1.725	1.795	1.807
1.0433	1.573	1.644	1.643	1.643	1.769	1.785
1.0533	1.612	1.576	1.501	1.684	1.774	1.786
1.0583	1.621	1.582	1.483	1.712	1.813	1.818

**M = 0.90**

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	1.555	2.738	1.05	2.410	2.052	1.892
0.0100	1.356	2.253	2.581	2.554	2.499	2.385
0.0200	1.356	1.885	2.499	2.538	2.499	2.385
0.0400	1.340	2.166	2.499	2.538	2.499	2.385
0.0600	1.357	1.012	2.826	2.441	2.385	2.385
0.0800	1.357	1.847	2.385	2.441	2.385	2.385
0.1000	1.386	1.092	2.911	2.776	2.911	2.911
0.1500	1.389	1.669	2.287	2.302	2.287	2.287
0.2133	1.424	1.759	2.323	2.260	2.194	2.194
0.2533	1.422	1.650	2.194	2.260	2.194	2.194
0.3033	1.387	1.197	1.073	2.968	1.073	1.073
0.3533	1.486	1.658	1.883	2.136	1.883	1.883
0.4167	1.317	1.178	1.082	2.993	1.082	1.082
0.4567	1.550	1.702	1.925	2.078	1.925	1.925
0.5067	1.108	1.104	1.034	2.934	1.034	1.034
0.5567	1.591	1.726	1.889	1.992	1.889	1.889
0.5867	1.062	1.006	1.961	2.914	1.961	1.961
0.6300	1.571	1.736	1.859	1.948	1.859	1.859
0.6500	1.937	1.902	1.872	1.841	1.819	1.819
0.6700	1.522	1.690	1.819	1.929	1.819	1.819
0.6800	1.874	1.847	1.833	1.796	1.822	1.822
0.6900	1.472	1.621	1.767	1.708	1.767	1.767
0.7100	1.794	1.768	1.752	1.727	1.752	1.752
0.7200	1.607	1.743	1.860	1.916	1.860	1.860
0.7300	1.619	1.752	1.864	1.911	1.864	1.864
0.7400	1.753	1.742	1.719	1.687	1.719	1.719
0.7500	1.644	1.776	1.884	1.919	1.884	1.884
0.7700	1.729	1.734	1.706	1.670	1.706	1.706
0.7800	1.732	1.819	1.923	1.936	1.923	1.923
0.8100	1.777	1.678	1.787	1.909	1.787	1.787
0.8200	1.697	1.724	1.699	1.663	1.699	1.699
0.8300	1.763	1.679	1.797	1.895	1.797	1.797
0.8533	1.747	1.695	1.776	1.865	1.776	1.776
0.8733	1.756	1.752	1.751	1.742	1.751	1.751
0.8833	1.751	1.671	1.776	1.853	1.776	1.776
0.9033	1.867	1.858	1.850	1.846	1.850	1.850
0.9133	1.772	1.680	1.783	1.841	1.783	1.783
0.9333	1.948	1.911	1.874	1.834	1.791	1.791
0.9633	1.779	1.702	1.791	1.834	1.791	1.791
0.9733	1.163	1.152	1.142	1.137	1.142	1.142
0.9833	1.773	1.705	1.780	1.811	1.780	1.780
0.9933	1.413	1.410	1.401	1.402	1.404	1.404
1.0000	1.717	1.670	1.755	1.800	1.755	1.755
1.0133	1.963	1.690	1.778	1.832	1.778	1.778
1.0233	1.761	1.717	1.794	1.829	1.794	1.794
1.0333	2.144	1.266	2.113	2.109	2.113	2.113
1.0433	1.740	1.693	1.770	1.825	1.770	1.770
1.0533	1.775	1.747	1.856	1.940	1.856	1.856
1.0583	1.777	1.371	1.277	1.479	1.713	1.736

$M = 0.93$

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	1.568	2.720	1.009	2.504	2.154	1.994
0.0100	1.244	2.191	2.554	2.554	2.499	2.385
0.0200	1.211	2.133	2.533	2.533	2.477	2.363
0.0400	1.349	2.121	2.442	2.442	2.385	2.263
0.0600	1.398	1.051	1.856	1.856	1.799	1.677
0.0800	1.360	1.731	2.394	2.394	2.337	2.215
0.1000	1.466	1.731	2.445	2.445	2.388	2.266
0.1500	1.383	1.675	2.254	2.254	2.197	2.139
0.2000	1.406	1.268	1.059	1.059	1.002	0.945
0.2500	1.425	1.688	2.373	2.373	2.316	2.259
0.3000	1.483	1.243	1.107	1.107	1.050	0.993
0.3500	1.482	1.679	1.885	1.885	1.828	1.771
0.4000	1.482	1.250	1.144	1.144	1.087	1.030
0.4500	1.553	1.708	1.931	1.931	1.874	1.817
0.5000	1.212	1.131	1.057	1.057	1.000	0.943
0.5500	1.593	1.727	1.932	1.932	1.875	1.818
0.6000	1.079	1.088	1.931	1.931	1.874	1.817
0.6500	1.616	1.744	1.863	1.863	1.806	1.749
0.7000	1.952	1.911	1.881	1.881	1.824	1.767
0.7500	1.562	1.703	1.818	1.818	1.761	1.704
0.8000	1.484	1.856	1.767	1.767	1.710	1.653
0.8500	1.491	1.623	1.767	1.767	1.710	1.653
0.9000	1.809	1.785	1.767	1.767	1.710	1.653
0.9500	1.635	1.750	1.852	1.852	1.795	1.738
1.0000	1.642	1.762	1.857	1.857	1.800	1.743
1.0500	1.774	1.752	1.731	1.731	1.674	1.617
1.1000	1.785	1.744	1.822	1.822	1.765	1.708
1.1500	1.784	1.744	1.723	1.723	1.666	1.609
1.2000	1.725	1.839	1.952	1.952	1.895	1.838
1.2500	1.857	1.796	2.069	2.069	2.012	1.955
1.3000	1.729	1.737	1.715	1.715	1.658	1.601
1.3500	1.843	1.801	2.062	2.062	2.005	1.948
1.4000	1.697	1.702	1.698	1.698	1.641	1.584
1.4500	1.832	1.783	2.011	2.011	1.954	1.897
1.5000	1.770	1.753	1.755	1.755	1.698	1.641
1.5500	1.837	1.779	2.021	2.021	1.964	1.907
1.6000	1.779	1.858	1.955	1.955	1.898	1.841
1.6500	1.841	1.782	2.008	2.008	1.951	1.894
1.7000	1.010	1.982	1.977	1.977	1.920	1.863
1.7500	1.839	1.787	1.969	1.969	1.912	1.855
1.8000	1.171	1.488	1.443	1.443	1.386	1.329
1.8500	1.830	1.790	1.972	1.972	1.915	1.858
1.9000	1.409	1.400	1.397	1.397	1.340	1.283
1.9500	1.776	1.767	1.842	1.842	1.785	1.728
2.0000	1.811	1.779	1.969	1.969	1.912	1.855
2.0500	2.174	2.195	2.107	2.107	2.050	1.993
2.1000	1.829	1.786	1.983	1.983	1.926	1.869
2.1500	2.118	2.120	2.077	2.077	2.020	1.963
2.2000	1.819	1.784	1.950	1.950	1.893	1.836
2.2500	1.862	1.870	2.031	2.031	1.974	1.917

TABLE 22.- PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.  
 $(\delta_f = 10^\circ; \delta_r = 0^\circ)$

**M=0.60**

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	1.463	1.153	1.839	2.154	2.014	1.910
0.0100	1.319	1.649	1.477	2.408	1.405	1.438
0.0200	1.169	1.805	2.425	2.110	1.921	1.857
0.0300	1.338	1.858	1.651	2.511	1.442	1.397
0.0400	1.192	1.546	1.895	2.086	1.913	1.865
0.0500	1.244	1.972	1.768	2.530	1.377	1.479
0.0600	1.216	1.472	1.618	2.053	1.897	1.876
0.0700	1.331	1.065	1.884	1.758	1.663	1.598
0.0800	1.244	1.386	1.666	1.595	1.663	1.667
0.0900	1.340	1.140	1.986	1.677	1.791	1.735
0.1000	1.243	1.343	1.568	1.948	1.837	1.855
0.1100	1.380	1.214	1.072	1.981	1.903	1.843
0.1200	1.286	1.289	1.457	1.909	1.817	1.843
0.1300	1.409	1.243	1.141	1.059	1.000	0.972
0.1400	1.190	1.245	1.363	1.872	1.601	1.632
0.1500	1.422	1.275	1.231	1.754	1.779	1.819
0.1600	1.143	1.172	1.291	1.825	1.790	1.819
0.1700	1.480	1.294	1.213	1.370	1.345	1.367
0.1800	1.081	1.108	1.231	1.754	1.779	1.819
0.1900	1.413	1.290	1.221	1.184	1.175	1.196
0.2000	1.053	1.076	1.208	1.750	1.770	1.794
0.2100	1.432	1.302	1.283	1.709	1.727	1.787
0.2200	1.006	1.026	1.183	1.709	1.727	1.787
0.2300	1.451	1.338	1.275	1.246	1.258	1.290
0.2400	1.456	1.350	1.285	1.248	1.258	1.312
0.2500	1.456	1.350	1.285	1.248	1.258	1.312
0.2600	1.456	1.350	1.285	1.248	1.258	1.312
0.2700	1.456	1.350	1.285	1.248	1.258	1.312
0.2800	1.456	1.350	1.285	1.248	1.258	1.312
0.2900	1.456	1.350	1.285	1.248	1.258	1.312
0.3000	1.456	1.350	1.285	1.248	1.258	1.312
0.3100	1.456	1.350	1.285	1.248	1.258	1.312
0.3200	1.456	1.350	1.285	1.248	1.258	1.312
0.3300	1.456	1.350	1.285	1.248	1.258	1.312
0.3400	1.456	1.350	1.285	1.248	1.258	1.312
0.3500	1.456	1.350	1.285	1.248	1.258	1.312
0.3600	1.456	1.350	1.285	1.248	1.258	1.312
0.3700	1.456	1.350	1.285	1.248	1.258	1.312
0.3800	1.456	1.350	1.285	1.248	1.258	1.312
0.3900	1.456	1.350	1.285	1.248	1.258	1.312
0.4000	1.456	1.350	1.285	1.248	1.258	1.312
0.4100	1.456	1.350	1.285	1.248	1.258	1.312
0.4200	1.456	1.350	1.285	1.248	1.258	1.312
0.4300	1.456	1.350	1.285	1.248	1.258	1.312
0.4400	1.456	1.350	1.285	1.248	1.258	1.312
0.4500	1.456	1.350	1.285	1.248	1.258	1.312
0.4600	1.456	1.350	1.285	1.248	1.258	1.312
0.4700	1.456	1.350	1.285	1.248	1.258	1.312
0.4800	1.456	1.350	1.285	1.248	1.258	1.312
0.4900	1.456	1.350	1.285	1.248	1.258	1.312
0.5000	1.456	1.350	1.285	1.248	1.258	1.312
0.5100	1.456	1.350	1.285	1.248	1.258	1.312
0.5200	1.456	1.350	1.285	1.248	1.258	1.312
0.5300	1.456	1.350	1.285	1.248	1.258	1.312
0.5400	1.456	1.350	1.285	1.248	1.258	1.312
0.5500	1.456	1.350	1.285	1.248	1.258	1.312
0.5600	1.456	1.350	1.285	1.248	1.258	1.312
0.5700	1.456	1.350	1.285	1.248	1.258	1.312
0.5800	1.456	1.350	1.285	1.248	1.258	1.312
0.5900	1.456	1.350	1.285	1.248	1.258	1.312
0.6000	1.456	1.350	1.285	1.248	1.258	1.312
0.6100	1.456	1.350	1.285	1.248	1.258	1.312
0.6200	1.456	1.350	1.285	1.248	1.258	1.312
0.6300	1.456	1.350	1.285	1.248	1.258	1.312
0.6400	1.456	1.350	1.285	1.248	1.258	1.312
0.6500	1.456	1.350	1.285	1.248	1.258	1.312
0.6600	1.456	1.350	1.285	1.248	1.258	1.312
0.6700	1.456	1.350	1.285	1.248	1.258	1.312
0.6800	1.456	1.350	1.285	1.248	1.258	1.312
0.6900	1.456	1.350	1.285	1.248	1.258	1.312
0.7000	1.456	1.350	1.285	1.248	1.258	1.312
0.7100	1.456	1.350	1.285	1.248	1.258	1.312
0.7200	1.456	1.350	1.285	1.248	1.258	1.312
0.7300	1.456	1.350	1.285	1.248	1.258	1.312
0.7400	1.456	1.350	1.285	1.248	1.258	1.312
0.7500	1.456	1.350	1.285	1.248	1.258	1.312
0.7600	1.456	1.350	1.285	1.248	1.258	1.312
0.7700	1.456	1.350	1.285	1.248	1.258	1.312
0.7800	1.456	1.350	1.285	1.248	1.258	1.312
0.7900	1.456	1.350	1.285	1.248	1.258	1.312
0.8000	1.456	1.350	1.285	1.248	1.258	1.312
0.8100	1.456	1.350	1.285	1.248	1.258	1.312
0.8200	1.456	1.350	1.285	1.248	1.258	1.312
0.8300	1.456	1.350	1.285	1.248	1.258	1.312
0.8400	1.456	1.350	1.285	1.248	1.258	1.312
0.8500	1.456	1.350	1.285	1.248	1.258	1.312
0.8600	1.456	1.350	1.285	1.248	1.258	1.312
0.8700	1.456	1.350	1.285	1.248	1.258	1.312
0.8800	1.456	1.350	1.285	1.248	1.258	1.312
0.8900	1.456	1.350	1.285	1.248	1.258	1.312
0.9000	1.456	1.350	1.285	1.248	1.258	1.312
0.9100	1.456	1.350	1.285	1.248	1.258	1.312
0.9200	1.456	1.350	1.285	1.248	1.258	1.312
0.9300	1.456	1.350	1.285	1.248	1.258	1.312
0.9400	1.456	1.350	1.285	1.248	1.258	1.312
0.9500	1.456	1.350	1.285	1.248	1.258	1.312
0.9600	1.456	1.350	1.285	1.248	1.258	1.312
0.9700	1.456	1.350	1.285	1.248	1.258	1.312
0.9800	1.456	1.350	1.285	1.248	1.258	1.312
0.9900	1.456	1.350	1.285	1.248	1.258	1.312
1.0000	1.456	1.350	1.285	1.248	1.258	1.312

$M=0.80$

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	1.508	1.000	1.500	1.872	2.094	1.953
0.0100	1.267	1.706	1.526	2.455	1.442	1.448
0.0200	1.267	2.408	2.943	2.134	1.989	1.921
0.0300	1.325	1.913	1.709	2.588	1.507	1.446
0.0400	1.272	1.732	2.785	2.128	1.981	1.921
0.0500	1.330	1.018	1.821	2.698	1.604	1.526
0.0600	1.304	1.660	2.634	2.120	1.961	1.914
0.0700	1.356	1.111	1.938	2.821	1.726	1.638
0.0800	1.330	1.555	1.841	2.039	1.936	1.893
0.0900	1.386	1.192	1.701	2.944	1.944	1.888
0.1000	1.328	1.494	1.617	1.987	1.920	1.888
0.1100	1.433	1.267	1.142	1.047	0.970	0.925
0.1200	1.309	1.458	1.253	1.936	1.894	1.884
0.1300	1.466	1.213	1.348	1.140	1.075	1.008
0.1400	1.262	1.350	1.440	1.902	1.878	1.875
0.1500	1.460	1.303	1.289	1.217	1.174	1.123
0.1600	1.305	1.348	1.186	1.869	1.863	1.866
0.1700	1.489	1.384	1.306	1.270	1.241	1.200
0.1800	1.310	1.103	1.271	1.837	1.847	1.859
0.1900	1.480	1.271	1.145	1.293	1.277	1.245
0.2000	1.094	1.142	1.236	1.832	1.827	1.845
0.2100	1.307	1.453	1.351	1.346	1.340	1.311
0.2200	1.481	1.094	1.202	1.816	1.835	1.848
0.2300	1.353	1.445	1.317	1.368	1.363	1.346
0.2400	1.549	1.458	1.397	1.386	1.384	1.366
0.2500	1.379	1.041	1.166	1.777	1.822	1.840
0.2600	1.589	1.445	1.417	1.425	1.434	1.417
0.2700	1.398	1.289	1.128	1.757	1.810	1.823
0.2800	1.702	1.633	1.578	1.595	1.622	1.624
0.2900	1.410	1.650	1.610	1.692	1.788	1.836
0.3000	1.587	1.968	1.104	1.710	1.793	1.824
0.3100	1.583	1.533	1.493	1.542	1.612	1.644
0.3200	1.393	1.963	1.379	1.683	1.779	1.823
0.3300	1.448	1.395	1.107	1.639	1.769	1.815
0.3400	1.655	1.008	1.321	1.403	1.507	1.551
0.3500	1.551	1.286	1.331	1.330	1.389	1.438
0.3600	1.551	1.286	1.331	1.330	1.389	1.438
0.3700	1.551	1.286	1.331	1.330	1.389	1.438
0.3800	1.551	1.286	1.331	1.330	1.389	1.438
0.3900	1.551	1.286	1.331	1.330	1.389	1.438
0.4000	1.551	1.286	1.331	1.330	1.389	1.438
0.4100	1.551	1.286	1.331	1.330	1.389	1.438
0.4200	1.551	1.286	1.331	1.330	1.389	1.438
0.4300	1.551	1.286	1.331	1.330	1.389	1.438
0.4400	1.551	1.286	1.331	1.330	1.389	1.438
0.4500	1.551	1.286	1.331	1.330	1.389	1.438
0.4600	1.551	1.286	1.331	1.330	1.389	1.438
0.4700	1.551	1.286	1.331	1.330	1.389	1.438
0.4800	1.551	1.286	1.331	1.330	1.389	1.438
0.4900	1.551	1.286	1.331	1.330	1.389	1.438
0.5000	1.551	1.286	1.331	1.330	1.389	1.438
0.5100	1.551	1.286	1.331	1.330	1.389	1.438
0.5200	1.551	1.286	1.331	1.330	1.389	1.438
0.5300	1.551	1.286	1.331	1.330	1.389	1.438
0.5400	1.551	1.286	1.331	1.330	1.389	1.438
0.5500	1.551	1.286	1.331	1.330	1.389	1.438
0.5600	1.551	1.286	1.331	1.330	1.389	1.438
0.5700	1.551	1.286	1.331	1.330	1.389	1.438
0.5800	1.551	1.286	1.331	1.330	1.389	1.438
0.5900	1.551	1.286	1.331	1.330	1.389	1.438
0.6000	1.551	1.286	1.331	1.330	1.389	1.438
0.6100	1.551	1.286	1.331	1.330	1.389	1.438
0.6200	1.551	1.286	1.331	1.330	1.389	1.438
0.6300	1.551	1.286	1.331	1.330	1.389	1.438
0.6400	1.551	1.286	1.331	1.330	1.389	1.438
0.6500	1.551	1.286	1.331	1.330	1.389	1.438
0.6600	1.551	1.286	1.331	1.330	1.389	1.438
0.6700	1.551	1.286	1.331	1.330	1.389	1.438
0.6800	1.551	1.286	1.331	1.330	1.389	1.438
0.6900	1.551	1.286	1.331	1.330	1.389	1.438
0.7000	1.551	1.286	1.331	1.330	1.389	1.438
0.7100	1.551	1.286	1.331	1.330	1.389	1.438
0.7200	1.551	1.286	1.331	1.330	1.389	1.438
0.7300	1.551	1.286	1.331	1.330	1.389	1.438
0.7400	1.551	1.286	1.331	1.330	1.389	1.438
0.7500	1.551	1.286	1.331	1.330	1.389	1.438
0.7600	1.551	1.286	1.331	1.330	1.389	1.438
0.7700	1.551	1.286	1.331	1.330	1.389	1.438
0.7800	1.551	1.286	1.331	1.330	1.389	1.438
0.7900	1.551	1.286	1.331	1.330	1.389	1.438
0.8000	1.551	1.286	1.331	1.330	1.389	1.438
0.8100	1.551	1.286	1.331	1.330	1.389	1.438
0.8200	1.551	1.286	1.331	1.330	1.389	1.438
0.8300	1.551	1.286	1.331	1.330	1.389	1.438
0.8400	1.551	1.286	1.331	1.330	1.389	1.438
0.8500	1.551	1.286	1.331	1.330	1.389	1.438
0.8600	1.551	1.286	1.331	1.330	1.389	1.438
0.8700	1.551	1.286	1.331	1.330	1.389	1.438
0.8800	1.551	1.286	1.331	1.330	1.389	1.438
0.8900	1.551	1.286	1.331	1.330	1.389	1.438
0.9000	1.551	1.286	1.331	1.330	1.389	1.438
0.9100	1.551	1.286	1.331	1.330	1.389	1.438
0.9200	1.551	1.286	1.331	1.330	1.389	1.438
0.9300	1.551	1.286	1.331	1.330	1.389	1.438
0.9400	1.551	1.286	1.331	1.330	1.389	1.438
0.9500	1.551	1.286	1.331	1.330	1.389	1.438
0.9600	1.551	1.286	1.331	1.330	1.389	1.438
0.9700	1.551	1.286	1.331	1.330	1.389	1.438
0.9800	1.551	1.286	1.331	1.330	1.389	1.438
0.9900	1.551	1.286	1.331	1.330	1.389	1.438
1.0000	1.551	1.286	1.331	1.330	1.389	1.438

TABLE 24.- PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.

 $(\beta = -10^\circ, \delta_f = 20^\circ)$ 

M=0.60

$\frac{x}{c}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	1.468	1.284	1.175	1.043	0.882	0.700
0.0100	1.176	1.000	0.882	0.748	0.600	0.449
0.0200	1.177	0.991	0.873	0.739	0.591	0.441
0.0400	1.232	0.927	0.810	0.676	0.528	0.379
0.0600	1.191	0.955	0.838	0.704	0.556	0.407
0.0800	1.137	0.940	0.823	0.689	0.541	0.392
0.1000	1.070	0.955	0.838	0.704	0.556	0.407
0.1500	0.833	0.941	0.823	0.689	0.541	0.392
0.2000	0.583	0.927	0.810	0.676	0.528	0.379
0.2500	0.333	0.914	0.797	0.663	0.515	0.370
0.3000	0.083	0.891	0.774	0.640	0.492	0.367
0.3500	-0.167	0.858	0.741	0.607	0.459	0.352
0.4000	-0.417	0.815	0.698	0.564	0.416	0.335
0.4500	-0.667	0.762	0.655	0.511	0.373	0.300
0.5000	-0.917	0.709	0.602	0.468	0.340	0.277
0.5500	-1.167	0.656	0.549	0.425	0.302	0.254
0.6000	-1.417	0.603	0.496	0.382	0.265	0.230
0.6500	-1.667	0.550	0.443	0.339	0.222	0.200
0.7000	-1.917	0.497	0.390	0.296	0.179	0.183
0.7500	-2.167	0.444	0.337	0.253	0.136	0.160
0.8000	-2.417	0.391	0.284	0.210	0.093	0.147
0.8500	-2.667	0.338	0.231	0.167	0.050	0.134
0.9000	-2.917	0.285	0.178	0.124	0.007	0.121
0.9500	-3.167	0.232	0.125	0.081	-0.036	0.108
1.0000	-3.417	0.179	0.072	0.038	-0.089	0.095

M=0.80

$\frac{x}{c}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	1.525	1.048	0.882	0.700	0.556	0.449
0.0100	1.207	0.927	0.810	0.676	0.528	0.407
0.0200	1.299	0.914	0.797	0.663	0.515	0.392
0.0400	1.278	0.901	0.788	0.654	0.506	0.383
0.0600	1.296	0.916	0.803	0.669	0.521	0.400
0.0800	1.296	0.916	0.803	0.669	0.521	0.400
0.1000	1.308	0.929	0.816	0.682	0.534	0.413
0.1500	1.316	0.939	0.826	0.692	0.544	0.423
0.2000	1.335	0.959	0.846	0.712	0.564	0.443
0.2500	1.338	0.964	0.851	0.717	0.569	0.448
0.3000	1.342	0.968	0.855	0.721	0.573	0.452
0.3500	1.343	0.969	0.856	0.722	0.574	0.453
0.4000	1.342	0.968	0.855	0.721	0.573	0.452
0.4500	1.343	0.969	0.856	0.722	0.574	0.453
0.5000	1.342	0.968	0.855	0.721	0.573	0.452
0.5500	1.343	0.969	0.856	0.722	0.574	0.453
0.6000	1.342	0.968	0.855	0.721	0.573	0.452
0.6500	1.343	0.969	0.856	0.722	0.574	0.453
0.7000	1.342	0.968	0.855	0.721	0.573	0.452
0.7500	1.343	0.969	0.856	0.722	0.574	0.453
0.8000	1.342	0.968	0.855	0.721	0.573	0.452
0.8500	1.343	0.969	0.856	0.722	0.574	0.453
0.9000	1.342	0.968	0.855	0.721	0.573	0.452
0.9500	1.343	0.969	0.856	0.722	0.574	0.453
1.0000	1.342	0.968	0.855	0.721	0.573	0.452

M=0.90

$\frac{x}{c}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	1.571	1.094	0.928	0.746	0.600	0.493
0.0100	1.219	0.973	0.807	0.663	0.517	0.410
0.0200	1.379	0.960	0.794	0.649	0.503	0.400
0.0400	1.316	0.972	0.807	0.663	0.517	0.410
0.0600	1.299	0.985	0.820	0.676	0.530	0.423
0.0800	1.337	0.970	0.803	0.654	0.506	0.400
0.1000	1.409	0.985	0.816	0.669	0.521	0.413
0.1500	1.477	1.000	0.830	0.682	0.534	0.423
0.2000	1.547	1.015	0.843	0.692	0.544	0.433
0.2500	1.617	1.030	0.856	0.702	0.554	0.443
0.3000	1.688	1.045	0.869	0.712	0.564	0.453
0.3500	1.758	1.060	0.882	0.722	0.574	0.463
0.4000	1.829	1.075	0.895	0.732	0.584	0.473
0.4500	1.899	1.090	0.908	0.742	0.594	0.483
0.5000	1.970	1.105	0.921	0.752	0.604	0.493
0.5500	2.040	1.120	0.934	0.762	0.614	0.503
0.6000	2.111	1.135	0.947	0.772	0.624	0.513
0.6500	2.181	1.150	0.960	0.782	0.634	0.523
0.7000	2.252	1.165	0.973	0.792	0.644	0.533
0.7500	2.322	1.180	0.986	0.802	0.654	0.543
0.8000	2.393	1.195	0.999	0.812	0.664	0.553
0.8500	2.463	1.210	1.012	0.822	0.674	0.563
0.9000	2.534	1.225	1.025	0.832	0.684	0.573
0.9500	2.604	1.240	1.038	0.842	0.694	0.583
1.0000	2.675	1.255	1.051	0.852	0.704	0.593

M=0.93

$\frac{x}{c}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	1.587	1.109	0.943	0.761	0.615	0.508
0.0100	1.235	0.988	0.817	0.678	0.532	0.425
0.0200	1.411	0.975	0.804	0.664	0.518	0.411
0.0400	1.335	0.987	0.817	0.678	0.532	0.425
0.0600	1.319	0.999	0.830	0.691	0.545	0.438
0.0800	1.357	0.984	0.805	0.670	0.524	0.416
0.1000	1.440	1.000	0.819	0.685	0.539	0.431
0.1500	1.509	1.015	0.833	0.698	0.552	0.446
0.2000	1.578	1.030	0.846	0.711	0.565	0.461
0.2500	1.648	1.045	0.859	0.724	0.578	0.476
0.3000	1.717	1.060	0.872	0.737	0.591	0.491
0.3500	1.787	1.075	0.885	0.750	0.604	0.506
0.4000	1.856	1.090	0.898	0.763	0.617	0.521
0.4500	1.926	1.105	0.911	0.776	0.630	0.536
0.5000	2.000	1.120	0.924	0.789	0.643	0.551
0.5500	2.070	1.135	0.937	0.802	0.656	0.566
0.6000	2.140	1.150	0.950	0.815	0.669	0.581
0.6500	2.210	1.165	0.963	0.828	0.682	0.596
0.7000	2.280	1.180	0.976	0.841	0.695	0.611
0.7500	2.350	1.195	0.989	0.854	0.708	0.626
0.8000	2.420	1.210	1.002	0.867	0.721	0.641
0.8500	2.490	1.225	1.015	0.880	0.734	0.656
0.9000	2.560	1.240	1.028	0.893	0.747	0.671
0.9500	2.630	1.255	1.041	0.906	0.760	0.686
1.0000	2.700	1.270	1.054	0.919	0.773	0.701

a Lower surface orifice is denoted by -.

TABLE 25.- PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.

 $(\delta_f = -10^\circ; \delta_r = -10^\circ)$ 

M=0.60

$\frac{x}{c}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	1.445	1.046	1.915	2.140	2.098	1.875
.0100	1.337	.880	1.483	1.406	1.404	1.271
.0200	1.081	1.716	2.561	2.098	1.908	1.843
.0400	1.314	1.886	1.661	.516	1.445	1.394
.0600	1.118	1.498	1.850	2.074	1.895	1.840
.0800	1.290	.989	.776	.639	.549	.480
.1000	1.148	1.444	1.775	2.051	1.894	1.845
.1200	1.101	1.367	1.492	.759	1.673	1.601
.1300	1.180	1.363	1.640	1.999	1.857	1.835
.1500	1.321	1.148	1.001	.689	.806	.738
.1600	1.180	1.322	1.544	1.956	1.836	1.829
.1800	1.338	1.217	1.092	.591	.918	.859
.2000	1.165	1.280	1.431	1.912	1.819	1.808
.2200	1.379	1.260	1.159	1.074	1.020	.969
.2400	1.448	1.320	1.247	1.190	1.165	1.156
.2600	1.399	1.304	1.218	1.147	1.110	1.078
.2800	1.077	1.149	1.257	1.814	1.791	1.786
.3000	1.429	1.373	1.201	1.190	1.165	1.156
.3200	1.399	1.304	1.218	1.147	1.110	1.078
.3400	1.077	1.149	1.257	1.814	1.791	1.786
.3600	1.429	1.373	1.201	1.190	1.165	1.156
.3800	1.399	1.304	1.218	1.147	1.110	1.078
.4000	1.077	1.149	1.257	1.814	1.791	1.786
.4200	1.429	1.373	1.201	1.190	1.165	1.156
.4400	1.399	1.304	1.218	1.147	1.110	1.078
.4600	1.077	1.149	1.257	1.814	1.791	1.786
.4800	1.429	1.373	1.201	1.190	1.165	1.156
.5000	1.399	1.304	1.218	1.147	1.110	1.078
.5200	1.077	1.149	1.257	1.814	1.791	1.786
.5400	1.429	1.373	1.201	1.190	1.165	1.156
.5600	1.399	1.304	1.218	1.147	1.110	1.078
.5800	1.077	1.149	1.257	1.814	1.791	1.786
.6000	1.429	1.373	1.201	1.190	1.165	1.156
.6200	1.399	1.304	1.218	1.147	1.110	1.078
.6400	1.077	1.149	1.257	1.814	1.791	1.786
.6600	1.429	1.373	1.201	1.190	1.165	1.156
.6800	1.399	1.304	1.218	1.147	1.110	1.078
.7000	1.077	1.149	1.257	1.814	1.791	1.786
.7200	1.429	1.373	1.201	1.190	1.165	1.156
.7400	1.399	1.304	1.218	1.147	1.110	1.078
.7600	1.077	1.149	1.257	1.814	1.791	1.786
.7800	1.429	1.373	1.201	1.190	1.165	1.156
.8000	1.399	1.304	1.218	1.147	1.110	1.078
.8200	1.077	1.149	1.257	1.814	1.791	1.786
.8400	1.429	1.373	1.201	1.190	1.165	1.156
.8600	1.399	1.304	1.218	1.147	1.110	1.078
.8800	1.077	1.149	1.257	1.814	1.791	1.786
.9000	1.429	1.373	1.201	1.190	1.165	1.156
.9200	1.399	1.304	1.218	1.147	1.110	1.078
.9400	1.077	1.149	1.257	1.814	1.791	1.786
.9600	1.429	1.373	1.201	1.190	1.165	1.156
.9800	1.399	1.304	1.218	1.147	1.110	1.078
1.0000	1.077	1.149	1.257	1.814	1.791	1.786

M=0.80

$\frac{x}{c}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	1.507	.954	1.472	1.859	2.085	1.646
.0100	1.316	.732	.525	.460	.441	.375
.0200	1.234	2.294	2.963	2.118	1.962	1.607
.0400	1.350	.933	.715	.591	1.509	1.376
.0600	1.254	1.689	2.783	2.118	1.962	1.607
.0800	1.345	1.038	.824	.705	.606	.447
.1000	1.287	1.680	2.606	2.118	1.960	1.618
.1200	1.366	1.124	.938	.822	.727	.542
.1400	1.314	1.530	1.730	2.042	1.932	1.603
.1600	1.403	1.215	1.049	.950	.860	.658
.1800	1.315	1.475	1.525	1.987	1.916	1.591
.2000	1.451	1.291	1.142	1.059	.975	.759
.2200	1.291	1.409	1.476	1.933	1.896	1.586
.2400	1.488	1.344	1.217	1.150	1.077	.852
.2600	1.384	1.317	1.324	1.402	1.379	1.174
.2800	1.507	1.389	1.282	1.231	1.176	.942
.3000	1.180	1.244	1.307	1.859	1.857	1.569
.3200	1.519	1.414	1.313	1.282	1.244	1.007
.3400	1.104	1.157	1.226	1.824	1.841	1.561
.3600	1.528	1.488	1.337	1.319	1.292	1.054
.3800	1.068	1.177	1.247	1.813	1.836	1.579
.4000	1.494	1.408	1.315	1.307	1.288	1.053
.4200	1.001	1.057	1.145	1.793	1.828	1.554
.4400	1.574	1.495	1.405	1.391	1.376	1.130
.4600	1.392	1.412	1.324	1.402	1.390	1.130
.4800	1.740	1.699	1.613	1.756	1.813	1.545
.5000	1.620	1.542	1.448	1.445	1.438	1.174
.5200	1.392	1.404	1.315	1.307	1.288	1.053
.5400	1.776	1.699	1.613	1.619	1.627	1.356
.5600	2.151	1.936	1.775	1.864	1.997	1.743
.5800	1.834	1.925	1.808	1.686	1.780	1.526
.6000	1.736	1.680	1.571	1.522	1.602	1.363
.6200	1.875	1.935	1.808	1.665	1.766	1.517
.6400	1.570	1.507	1.452	1.522	1.602	1.363
.6600	1.833	1.945	1.832	1.634	1.753	1.509
.6800	1.499	1.444	1.404	1.497	1.589	1.350
.7000	1.917	1.953	1.850	1.608	1.739	1.501
.7200	1.446	1.412	1.379	1.499	1.607	1.370
.7400	1.869	1.952	1.845	1.592	1.713	1.478
.7600	1.416	1.394	1.372	1.541	1.663	1.417
.7800	1.903	1.944	1.837	1.535	1.688	1.478
.8000	1.504	1.397	1.382	1.604	1.739	1.483
.8200	1.865	1.922	1.821	1.511	1.672	1.464
.8400	1.409	1.424	1.448	1.922	2.057	2.011
.8600	1.013	1.355	1.313	1.667	2.242	2.197
.8800	1.324	1.355	1.313	1.667	2.242	2.197
.9000	1.262	1.233	1.201	1.554	1.912	1.872
.9200	1.039	1.052	1.087	1.508	1.695	1.492
.9400	1.319	1.319	1.319	1.498	1.697	1.517
.9600	1.173	1.155	1.136	1.468	1.663	1.469

M=0.90

$\frac{x}{c}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.548	.891	1.207	1.406	1.404	1.271
.0100	1.281	.778	1.602	2.067	1.908	1.843
.0200	1.281	.778	1.602	2.067	1.908	1.843
.0400	1.281	.778	1.602	2.067	1.908	1.843
.0600	1.281	.778	1.602	2.067	1.908	1.843
.0800	1.281	.778	1.602	2.067	1.908	1.843
.1000	1.281	.778	1.602	2.067	1.908	1.843
.1200	1.281	.778	1.602	2.067	1.908	1.843
.1400	1.281	.778	1.602	2.067	1.908	1.843
.1600	1.281	.778	1.602	2.067	1.908	1.843
.1800	1.281	.778	1.602	2.067	1.908	1.843
.2000	1.281	.778	1.602	2.067	1.908	1.843
.2200	1.281	.778	1.602	2.067	1.908	1.843
.2400	1.281	.778	1.602	2.067	1.908	1.843
.2600	1.281	.778	1.602	2.067	1.908	1.843
.2800	1.281	.778	1.602	2.067	1.908	1.843
.3000	1.281	.778	1.602	2.067	1.908	1.843
.3200	1.281	.778	1.602	2.067	1.908	1.843
.3400	1.281	.778	1.602	2.067	1.908	1.843
.3600	1.281	.778	1.602	2.067	1.908	1.843
.3800	1.281	.778	1.602	2.067	1.908	1.843
.4000	1.281	.778	1.602	2.067	1.908	1.843
.4200	1.281	.778	1.602	2.067	1.908	1.843
.4400	1.281	.778	1.602	2.067	1.908	1.843
.4600	1.281	.778	1.602	2.067	1.908	1.843
.4800	1.281	.778	1.602	2.067	1.908	1.843
.5000	1.281	.778	1.602	2.067	1.908	1.843
.5200	1.281	.778	1.602	2.067	1.908	1.843
.5400	1.281	.778	1.602	2.067	1.908	1.843
.5600	1.281	.778	1.602	2.067	1.908	1.843
.5800	1.281	.778	1.602	2.067	1.908	1.843
.6000	1.281	.778	1.602	2.067	1.908	1.843
.6200	1.281	.778	1.602	2.067	1.908	1.843
.6400	1.281	.778	1.602	2.067	1.908	1.843
.6600	1.281	.778	1.602	2.067	1.908	1.843
.6800	1.281	.778	1.602	2.067	1.908	1.843
.7000	1.281	.778	1.602	2.067	1.908	1.843
.7200	1.281	.778	1.602	2.067	1.908	1.843
.7400	1.281	.778	1.602	2.067	1.908	1.843
.7600	1.281	.778	1.602	2.067	1.908	1.843
.7800	1.281	.778	1.602	2.067	1.908	1.843
.8000	1.281	.778	1.602	2.067	1.908	1.843
.8200	1.281	.778	1.602	2.067	1.908	1.843
.8400	1.281	.778	1.602	2.067	1.908	1.843
.8600	1.281	.778	1.602	2.067	1.908	1.843
.8800	1.281	.778	1.602	2.067	1.908	1.843
.9000	1.281	.778	1.602	2.067	1.908	1.843
.9200	1.281	.778	1.602	2.067	1.908	1.843
.9400	1.281	.778	1.602	2.067	1.908	1.843
.9600	1.281	.778	1.602	2.067	1.908	1.843
.9800	1.281	.778	1.602	2.067	1.908	1.843
1.0000	1.281	.778	1.602	2.067	1.908	1.843

M=0.93

$\frac{x}{c}$ (a)
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TABLE 26- PRESSURE COEFFICIENTS AT 0.46 SEMISPAN

( $\delta = -10^\circ$ ;  $\delta_1 = -20^\circ$ )

$\frac{x}{c}$ (a)	M = 0.60					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	1.455	1.021	1.868	2.132	2.015	1.891
.0100	1.366	.684	1.480	2.408	2.101	1.428
.0200	1.038	1.707	2.433	2.084	1.907	1.850
.0300	1.329	.894	.657	.516	1.449	.402
.0400	1.108	1.499	1.877	2.063	1.901	1.856
.0500	1.304	.994	.774	.637	1.540	1.484
.0600	1.116	1.441	1.788	2.054	1.888	1.851
.0700	1.308	1.080	.891	.762	1.673	1.603
.0800	1.325	1.157	.997	.890	1.810	1.737
.0900	1.155	1.317	1.545	1.973	1.829	1.831
.1000	1.162	1.222	1.068	.991	1.922	1.863
.1100	1.148	1.264	1.431	1.937	1.815	1.816
.1200	1.390	1.262	1.154	1.075	1.019	.977
.1300	1.122	1.197	1.358	1.867	1.802	1.803
.1400	1.410	1.312	1.217	1.133	1.113	1.089
.1500	1.047	1.189	1.250	1.830	1.785	1.788
.1600	1.439	1.332	1.247	1.202	1.174	1.165
.1700	.992	1.050	1.188	1.765	1.770	1.769
.1800	1.430	1.341	1.264	1.219	1.209	1.217
.1900	.964	1.014	1.161	1.729	1.760	1.759
.2000	1.426	1.334	1.267	1.227	1.230	1.241
.2100	.934	.957	1.131	1.682	1.750	1.744
.2200	1.487	1.406	1.331	1.280	1.292	1.316
.2300	1.451	1.412	1.341	1.295	1.306	1.334
.2400	.907	1.006	1.157	1.632	1.740	1.733
.2500	1.520	1.442	1.371	1.332	1.357	1.386
.2600	.761	.853	1.062	1.571	1.716	1.716
.2700	1.559	1.559	1.489	1.457	1.508	1.563
.2800	1.768	1.695	1.626	1.593	1.694	1.784
.2900	.723	.824	1.031	1.503	1.704	1.713
.3000	1.723	1.651	1.582	1.487	1.558	1.643
.3100	.853	.829	1.018	1.448	1.686	1.710
.3200	1.470	1.494	1.376	1.360	1.508	1.593
.3300	.863	.830	1.010	1.473	1.673	1.697
.3400	1.903	1.833	1.761	1.330	1.530	1.619
.3500	.913	.828	.995	1.349	1.662	1.694
.3600	1.396	1.370	1.332	1.321	1.584	1.683
.3700	.943	.891	.981	1.321	1.638	1.693
.3800	1.362	1.368	1.334	1.331	1.699	1.816
.3900	.973	.919	.968	.956	1.615	1.686
.4000	1.913	1.846	1.806	1.348	1.853	1.985
.4100	.993	.933	.999	1.212	1.597	1.679
.4200	1.422	1.424	1.404	1.412	2.482	2.495
.4300	1.296	1.289	1.251	1.260	2.004	2.193
.4400	.953	.877	.964	.973	1.609	1.689
.4500	1.033	1.033	1.033	1.033	1.755	1.925
.4600	1.043	.925	.943	1.035	1.711	1.604
.4700	1.053	1.246	1.212	1.230	1.648	1.854
.4800	1.058	1.171	1.163	1.145	1.188	1.606
.4900						1.752

$\frac{x}{c}$ (a)	M = 0.80					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.501	.947	1.473	1.850	2.124	1.943
.0100	1.320	.733	.529	.460	.438	.445
.0200	1.216	2.256	2.921	2.115	1.958	1.901
.0300	1.355	.937	.715	.586	.508	.441
.0400	1.238	1.685	2.776	2.110	1.957	1.909
.0500	1.353	1.042	.824	.703	.605	.524
.0600	1.269	1.616	2.598	2.117	1.957	1.906
.0700	1.373	1.125	.942	.821	.726	.637
.0800	1.300	1.220	1.686	2.025	1.935	1.884
.0900	1.403	1.210	1.049	.949	.855	.769
.1000	1.299	1.463	1.560	1.977	1.918	1.875
.1100	1.424	1.715	1.690	1.996	1.978	1.946
.1200	1.373	1.398	1.488	1.922	1.892	1.866
.1300	1.483	1.343	1.223	1.144	1.072	.999
.1400	1.224	1.715	1.690	1.996	1.978	1.946
.1500	1.302	1.388	1.286	1.152	1.072	1.010
.1600	1.156	1.225	1.301	1.856	1.861	1.854
.1700	1.509	1.415	1.328	1.173	1.087	1.037
.1800	1.376	1.335	1.219	1.815	1.846	1.841
.1900	1.510	1.430	1.341	1.309	1.277	1.239
.2000	1.041	1.094	1.187	1.615	1.637	1.641
.2100	1.483	1.403	1.299	1.307	1.287	1.247
.2200	.973	1.033	1.141	1.793	1.828	1.841
.2300	1.573	1.496	1.415	1.388	1.366	1.333
.2400	1.508	1.506	1.421	1.172	1.105	1.033
.2500	1.641	1.559	1.476	1.443	1.435	1.405
.2600	1.831	1.932	1.075	1.172	1.105	1.033
.2700	1.781	1.711	1.618	1.594	1.600	1.583
.2800	2.335	2.043	1.886	1.912	2.034	2.064
.2900	.820	.892	1.046	1.678	1.787	1.805
.3000	1.835	1.728	1.618	1.635	1.710	1.716
.3100	.827	.898	1.044	1.646	1.775	1.796
.3200	1.618	1.541	1.478	1.511	1.594	1.596
.3300	1.831	1.861	1.012	1.101	1.033	1.033
.3400	1.548	1.486	1.433	1.485	1.585	1.598
.3500	.837	.895	1.035	1.591	1.746	1.784
.3600	1.504	1.454	1.409	1.478	1.609	1.627
.3700	.821	.884	1.032	1.547	1.724	1.772
.3800	1.473	1.436	1.399	1.500	1.657	1.682
.3900	.973	.919	1.012	1.508	1.698	1.762
.4000	1.913	1.846	1.806	1.348	1.714	1.747
.4100	.993	.933	.999	1.468	1.678	1.753
.4200	1.447	1.430	1.405	1.681	1.927	2.090
.4300	1.013	1.019	1.019	1.537	1.822	1.972
.4400	.908	.890	1.019	1.515	1.703	1.780
.4500	1.362	1.338	1.303	1.536	1.799	1.940
.4600	1.053	1.044	1.093	1.501	1.704	1.796
.4700	1.051	1.032	1.004	1.487	1.755	1.883
.4800	1.058	1.241	1.231	1.487	1.706	1.809
.4900						

$\frac{x}{c}$ (a)	M = 0.90					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.545	.864	1.213	1.552		
.0100	1.337	.261	2.580	2.159		
.0200	1.351	.955	.784	.630		
.0300	1.351	2.408	2.464	2.163		
.0400	1.351	1.050	.891	.741		
.0500	1.396	1.853	2.404	2.161		
.0600	1.376	1.134	1.000	.856		
.0700	1.436	1.672	2.321	2.126		
.0800	1.412	1.231	1.109	.980		
.0900	1.453	1.660	2.207	2.081		
.1000	1.466	1.302	1.205	1.081		
.1100	1.423	1.628	1.952	2.010		
.1200	1.530	1.363	1.284	1.171		
.1300	1.347	1.373	1.345	1.947		
.1400	1.558	1.398	1.776	2.245		
.1500	1.245	1.235	1.463	1.892		
.1600	1.542	1.403	1.376	1.297		
.1700	1.446	1.411	1.376	1.847		
.1800	1.505	1.424	1.390	1.342		
.1900	1.490	1.100	1.342	1.828		
.2000	1.470	1.383	1.357	1.322		
.2100	1.022	1.044	1.306	1.805		
.2200	1.553	1.456	1.445	1.368		
.2300	1.545	1.456	1.449	1.397		
.2400	.958	1.005	1.267	1.779		
.2500	1.578	1.499	1.501	1.450		
.2600	.884	.973	1.654	1.607		
.2700	1.701	1.661	1.222	1.755		
.2800	2.189	2.175	2.216	2.146		
.2900	.865	2.945	1.147	2.717		
.3000	1.413	2.135	1.061	1.104		
.3100	.884	.930	1.061	1.689		
.3200	1.950	1.779	1.688	1.689		
.3300	.898	.921	1.004	1.656		
.3400	1.749	1.660	1.599	1.610		
.3500	.896	.916	.973	1.642		
.3600	1.697	1.612	1.543	1.618		
.3700	.889	.903	.958	1.613		
.3800	1.639	1.532	1.487	1.640		
.3900	.891	.914	.943	1.626		
.4000	1.569	1.469	1.455	1.646		
.4100	.831	.870	.917	1.554		
.4200	1.506	1.414	1.430	1.656		
.4300	1.494	1.388	1.433	1.608		
.4400	.858	.915	.945	1.578		
.4500	1.481	1.374	1.375	1.621		
.4600	1.030	1.034	1.053	1.570		
.4700	1.476	1.379	1.352	1.599		
.4800	1.363	1.275	1.273	1.569		
.4900						

$M = 0.93$						
$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.571	.862	1.167			
.0100	1.282	.809	2.618			
.0200	1.385	2.245	2.002			
.0300	1.378	1.004	.808			
.0400	1.394	2.130	2.422			
.0500	1.390	1.103	.917			
.0600	1.425	1.990	2.348			
.0700	1.423	1.194	1.021			
.0800	1.495	1.731	2.280			
.0900	1.461	1.286	1.133			
.1000	1.511	1.764	2.211			
.1100	1.520	1.378	1.234			
.1200	1.541	1.796	1.951			
.1300	1.586	1.440	1.319			
.1400	1.483	1.715	1.992			
.1500	1.635	1.463	1.366			
.1600	1.296	1.403	1.902			
.1700	1.592	1.414	1.368			
.1800	1.173	1.227	1.587			
.1900	1.566	1.489	1.459			
.2000	1.130	1.184	1.528			
.2100	1.642	1.529	1.470			
.2200	.986	1.117	1.462			
.2300	1.633	1.454	1.409			
.2400	1.921	1.092	1.451			
.2500	2.720	1.701	1.670			
.2600	2.187	1.064	1.392			
.2700	2.086	2.191	2.170			
.2800	.901	1.025	1.668			
.2900	1.873	2.000	1.618			
.3000	.911	.999	1.151			
.3100	1.683	1.846	1.001			
.3200	.913	1.015	.956			
.3300	1.780	1.741	1.670			
.3400	.896	.961	1.998			
.3500	1.778	1.659	1.994			
.3600	.859	.944	.963			
.3700	1.641	1.601	1.531			
.3800	.819	.922	1.334			
.3900	1.625	1.510	1.486			
.4000	1.591	1.503	1.462			
.4100	.900	.965	.958			
.4200	1.600	1.487	1.462			
.4300	1.083	1.092	1.082			
.4400	1.577	1.521	1.526			
.4500	1.418	1.378	1.335			



TABLE 27- PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.

$$(\delta_f = -20^\circ, \delta_r = 0^\circ)$$

M = 0.60

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	1.460	.981	1.665	2.073	2.011	1.849
.0100	1.405	.712	1.405	1.404	1.403	1.426
.0200	1.047	1.671	2.049	2.045	1.898	1.859
.0400	1.352	1.916	1.674	1.529	1.454	1.391
.0600	1.076	1.465	1.991	2.034	1.894	1.791
.0800	1.317	1.031	1.790	2.645	1.557	1.483
.1000	1.108	1.401	1.894	2.016	1.877	1.830
.1200	1.311	1.120	1.909	1.787	1.682	1.604
.1400	1.136	1.339	1.668	1.954	1.843	1.803
.1600	1.108	1.200	1.018	1.894	1.815	1.739
.1800	1.328	1.200	1.500	1.893	1.821	1.797
.2000	1.120	1.280	1.500	1.893	1.821	1.797
.2200	1.359	1.279	1.115	1.999	1.938	1.868
.2400	1.100	1.224	1.352	1.828	1.799	1.783
.2600	1.408	1.325	1.191	1.020	1.041	1.292
.2800	1.506	1.142	1.250	1.774	1.751	1.770
.3000	1.448	1.378	1.267	1.178	1.149	1.114
.3200	.984	1.054	1.166	1.717	1.767	1.754
.3400	1.503	1.412	1.127	1.247	1.158	1.126
.3600	.914	1.963	1.117	1.652	1.751	1.733
.3800	1.529	1.440	1.363	1.293	1.283	1.279
.4000	.885	.916	1.073	1.631	1.743	1.724
.4200	1.540	1.473	1.401	1.355	1.342	1.339
.4400	.819	.855	1.032	1.600	1.737	1.712
.4600	1.585	1.526	1.450	1.381	1.391	1.404
.4800	1.593	1.545	1.467	1.399	1.413	1.434
.5000	1.646	1.601	1.527	1.456	1.483	1.507
.5200	1.655	1.782	1.936	1.490	1.692	1.682
.5400	1.655	1.963	1.800	1.725	1.793	1.849
.5600	2.076	2.146	2.059	1.991	2.165	2.400
.5800	.616	.759	.907	1.427	1.660	1.670
.6000	1.717	1.750	1.671	1.529	1.772	1.901
.6200	.853	.853	.853	.853	.853	.853
.6400	1.423	1.473	1.423	1.394	1.547	1.651
.6600	1.743	1.788	1.826	1.353	1.642	1.669
.6800	1.813	1.873	1.924	1.303	1.475	1.580
.7000	1.789	.831	.935	1.307	1.629	1.663
.7200	1.264	1.299	1.259	1.237	1.447	1.551
.7400	1.823	1.872	1.927	1.264	1.604	1.652
.7600	1.800	1.850	1.902	1.294	1.433	1.548
.7800	.854	.915	.964	1.214	1.580	1.645
.8000	1.118	1.233	1.175	1.163	1.424	1.541
.8200	1.084	.963	1.986	1.193	1.167	1.648
.8400	1.186	1.162	1.144	1.147	1.445	1.547
.8600	1.147	1.166	1.132	1.142	1.464	1.578
.8800	1.096	1.116	1.106	1.129	1.504	1.603
.9000	1.143	1.123	1.106	1.129	1.504	1.603
.9200	1.023	1.022	1.025	1.147	1.576	1.644
.9400	1.063	1.116	1.077	1.108	1.511	1.531
.9600	1.052	1.121	1.075	1.117	1.531	1.648

M = 0.80

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.503	.951	1.471	1.835	2.076	1.957
.0100	1.334	.734	.532	.462	.441	.451
.0200	1.222	2.273	2.966	2.125	1.971	1.928
.0400	1.366	.941	.720	.592	.592	.446
.0600	1.238	1.668	2.804	2.120	2.001	1.942
.0800	1.355	1.046	.837	.706	.607	.531
.1000	1.281	1.601	2.653	2.088	1.944	1.917
.1200	1.371	1.134	.922	.827	.730	.646
.1400	1.296	1.497	1.699	2.029	1.911	1.896
.1600	1.398	1.222	1.055	.954	.859	.786
.1800	1.287	1.434	1.480	1.975	1.896	1.868
.2000	1.445	1.303	1.161	1.064	.979	.911
.2200	1.242	1.347	1.431	1.910	1.877	1.875
.2400	1.496	1.366	1.242	1.150	1.089	1.026
.2600	1.175	1.242	1.355	1.661	1.639	1.668
.2800	1.521	1.417	1.316	1.251	1.196	1.148
.3000	1.084	1.135	1.220	1.821	1.842	1.851
.3200	1.462	1.300	.962	1.311	1.267	1.228
.3400	.990	1.034	1.111	1.787	1.828	1.846
.3600	1.549	1.471	1.389	1.349	1.317	1.266
.3800	1.337	1.907	1.406	1.767	1.823	1.834
.4000	1.549	1.477	1.406	1.374	1.349	1.324
.4200	.857	.934	1.049	1.752	1.813	1.838
.4400	1.604	1.541	1.462	1.435	1.407	1.387
.4600	1.777	1.553	1.482	1.452	1.428	1.404
.4800	.797	.889	1.014	1.715	1.797	1.824
.5000	1.642	1.587	1.508	1.473	1.473	1.451
.5200	1.770	.863	.863	1.605	1.776	1.857
.5400	1.774	1.749	1.698	1.676	1.674	1.665
.5600	2.021	2.031	2.138	2.369	2.656	2.708
.5800	.840	.967	.852	.852	.756	.759
.6000	1.930	1.938	1.939	2.015	2.244	2.480
.6200	.765	.842	.970	1.637	1.752	1.794
.6400	1.813	1.709	1.634	1.745	1.935	2.248
.6600	.863	.908	.863	.863	.863	.863
.6800	1.748	1.578	1.455	1.604	1.832	1.965
.7000	.869	.897	1.007	1.574	1.732	1.784
.7200	1.928	1.510	1.434	1.560	1.754	1.868
.7400	.928	.940	1.029	1.541	1.731	1.775
.7600	1.618	1.450	1.383	1.520	1.705	1.786
.7800	.979	.996	1.051	1.506	1.702	1.748
.8000	1.536	1.437	1.351	1.495	1.673	1.748
.8200	1.033	1.038	1.032	1.488	1.687	1.757
.8400	1.532	1.371	1.319	1.480	1.676	1.748
.8600	1.932	1.860	1.802	1.480	1.677	1.754
.8800	1.040	1.074	1.100	1.471	1.696	1.781
.9000	1.439	1.321	1.265	1.463	1.674	1.784
.9200	1.137	1.133	1.149	1.457	1.685	1.781
.9400	1.137	1.133	1.149	1.457	1.685	1.781
.9600	1.279	1.280	1.224	1.449	1.669	1.756
.9800						
1.0000						

M = 0.90

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.549	.894	1.231			
.0100	1.277	.785	.597			
.0200	1.350	2.277	2.610			
.0400	1.367	1.089	.894			
.0600	1.355	2.132	2.473			
.0800	1.367	1.089	.894			
.1000	1.394	1.865	2.161			
.1200	1.494	1.880	2.006			
.1400	1.440	1.716	2.375			
.1600	1.430	1.271	1.113			
.1800	1.436	1.710	2.051			
.2000	1.491	1.358	1.214			
.2200	1.378	1.582	1.951			
.2400	1.565	1.418	1.289			
.2600	1.565	1.386	1.568			
.2800	1.596	1.454	1.353			
.3000	1.151	1.167	1.425			
.3200	1.561	1.466	1.392			
.3400	1.042	1.071	1.369			
.3600	1.535	1.479	1.412			
.3800	.979	1.032	1.344			
.4000	1.517	1.465	1.403			
.4200	.898	.999	1.322			
.4400	1.561	1.511	1.466			
.4600	1.560	1.525	1.482			
.4800	.843	.981	1.290			
.5000	1.605	1.571	1.529			
.5200	.979	.968	1.553			
.5400	1.703	1.693	1.639			
.5600	2.460	2.332	2.442			
.5800	.890	.956	1.175			
.6000	2.320	2.081	2.237			
.6200	.812	.930	1.018			
.6400	1.916	1.944	1.840			
.6600	.861	.925	1.012			
.6800	1.891	1.885	1.800			
.7000	.915	.942	1.886			
.7200	1.842	1.838	1.770			
.7400	.979	.978	.925			
.7600	1.815	1.803	1.736			
.7800	1.040	1.029	1.986			
.8000	1.787	1.780	1.711			
.8200	1.100	1.082	1.044			
.8400	1.812	1.726	1.655			
.8600	1.013	.718	1.339			
.8800	1.100	1.129	1.078			
.9000	1.761	1.664	1.582			
.9200	1.224	1.265	1.181			
.9400	1.643	1.605	1.519			
.9600	1.484	1.478	1.374			

M = 0.93

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.567	.869	1.185			
.0100	1.285	.809	.624			
.0200	1.388	2.242	2.536			
.0400	1.377	1.007	.815			
.0600	1.394	2.109	2.411			
.0800	1.396	1.104	.928			
.1000	1.429	1.976	2.307			
.1200	1.431	1.893	2.037			
.1400	1.491	1.734	2.233			
.1600	1.471	1.280	1.147			
.1800	1.504	1.761	2.147			
.2000	1.538	1.372	1.250			
.2200	1.438	1.787	1.950			
.2400	1.608	1.443	1.352			
.2600	1.592	1.470	1.975			
.2800	1.656	1.475	1.388			
.3000	1.176	1.220	1.722			
.3200	1.682	1.469	1.413			
.3400	1.060	1.139	1.515			
.3600	1.651	1.475	1.428			
.3800	.994	1.141	1.458			
.4000	1.603	1.462	1.417			
.4200	.916	1.091	1.504			
.4400	1.635	1.507	1.467			
.4600	1.118	1.313	1.544			
.4800	.859	1.077	1.504			
.5000	1.621	1.555	1.528			
.5200	.770	1.119	1.717			
.5400	1.724	1.671	1.644			
.5600	2.464	2.429	2.449			
.5800	.807	1.309	1.717			
.6000	2.144	2.263	2.320			
.6200	.818	1.005	1.273			
.6400	2.299	1.917	2.013			
.6600	.867	1.066	1.374			
.6800	1.966	1.668	1.864			
.7000	.927	1.258	1.552			
.7200	1.906	1.734	1.829			
.7400	.989	.982	.961			
.7600	1.852	1.021	1.804			
.7800	1.053	1.029	1.330			
.8000	1.026	1.009	1.032			
.8200	1.117	1.085	1.093			
.8400	1.813	1.770	1.784			
.8600	.913	1.764	1.778			
.8800	1.150	1.142	1.138			
.9000	1.797	1.726	1.753			
.9200	1.283	1.771	1.768			
.9400	1.133	1.662	1.619			
.9600	1.573	1.531	1.521			

TABLE 28 - PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.  
 $(\delta = -20^\circ; \delta_f = 10^\circ)$

$M = 0.60$

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	1.4600	1.0003	1.2901	2.1110	2.0883	1.8877
0.0100	1.3384	0.6995	1.4855	1.4000	1.4022	1.4233
0.0200	1.0533	1.6883	2.4666	2.0766	1.9255	1.8466
0.0400	1.3443	0.9000	1.6568	1.5222	1.4466	1.4022
0.0600	1.1105	1.4775	1.8444	2.0477	1.9215	1.8477
0.0800	1.3119	1.0004	1.7791	1.6339	1.5500	1.4822
0.1000	1.1288	1.4330	1.7666	2.0284	1.9077	1.8422
0.1500	1.3111	1.0800	1.8998	1.7655	1.6788	1.6044
0.2133	1.1557	1.3338	1.8609	1.9771	1.8633	1.8333
0.2533	1.3288	1.1688	1.9010	1.9991	1.8099	1.7500
0.3033	1.1533	1.2977	1.5244	1.9344	1.8388	1.8266
0.3533	1.3165	1.2336	1.1009	1.0003	1.9288	1.8711
0.4167	1.1128	1.2236	1.4011	1.8775	1.8200	1.8133
0.4567	1.4077	1.2293	1.1177	1.0332	1.8322	1.8133
0.5067	1.0922	1.1622	1.2998	1.8223	1.8000	1.7966
0.5567	1.4438	1.3331	1.2557	1.1773	1.1377	1.1211
0.5867	1.1020	1.0776	1.2286	1.1774	1.1785	1.1783
0.6300	1.4664	1.3811	1.2955	1.1888	1.1788	1.1777
0.6500	1.9449	1.9223	1.1577	1.6911	1.7677	1.7666
0.6700	1.4666	1.3897	1.2284	1.1218	1.2129	1.2355
0.6800	1.9144	1.9445	1.1677	1.6777	1.7622	1.7566
0.6900	1.4441	1.3557	1.1160	1.1300	1.1411	1.1522
0.7100	1.8449	1.8877	1.1104	1.6400	1.7633	1.7477
0.7200	1.4543	1.4880	1.4522	1.3866	1.4000	1.4300
0.7300	1.8553	1.9122	1.1422	1.7933	1.4200	1.4477
0.7400	1.4771	1.8443	1.0668	1.5551	1.7311	1.7300
0.7500	1.8598	1.8540	1.4894	1.4355	1.4666	1.5139
0.7600	1.8100	1.8077	1.8077	1.4355	1.7100	1.7033
0.7800	1.8112	1.7990	1.7226	1.6799	1.7599	1.8611
0.8100	1.9466	1.9682	1.8881	1.4000	2.0066	2.8422
0.8200	1.8100	1.7899	1.8007	1.4355	1.7599	1.8611
0.8300	1.5771	1.5888	1.5622	1.5338	1.6833	1.8066
0.8533	1.7444	1.8066	1.0222	1.4288	1.6933	1.7099
0.8733	1.8733	1.3411	1.7211	1.3055	1.4677	1.5755
0.8833	1.8055	1.8444	1.0122	1.3466	1.6700	1.6999
0.9033	1.2881	1.2668	1.2227	1.2066	1.3888	1.4855
0.9133	1.8666	1.9088	1.0221	1.2999	1.6359	1.6922
0.9333	1.8333	1.8299	1.1622	1.3400	1.3300	1.4877
0.9433	1.9339	1.9677	1.0433	1.2633	1.6500	1.6888
0.9633	1.1622	1.1622	1.1222	1.0977	1.2884	1.3722
0.9733	1.1015	1.0511	1.0700	1.0223	1.6466	1.6777
0.9833	1.0666	1.1338	1.0955	1.0669	1.2522	1.3177
0.9933	1.1148	1.1677	1.1224	1.1234	1.6433	1.6777
1.0033	1.1138	1.1138	1.1138	1.1138	1.6433	1.6777
1.0133	1.1000	1.1100	1.0777	1.0633	1.2411	1.2955
1.0233	1.1255	1.1200	1.0888	1.1338	1.6144	1.6644
1.0333	1.0881	1.0666	1.0668	1.1064	1.2377	1.4099
1.0433	1.0877	1.0888	1.0766	1.1166	1.5933	1.6644
1.0533	1.0114	1.0448	1.0557	1.0661	1.4677	1.5522
1.0583	1.0333	1.0668	1.0668	1.0833	1.5699	1.6600

$M = 0.80$

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	1.5000	0.9600	1.4778	1.8554	2.1333	1.9337
0.0100	1.3334	0.7338	1.5331	1.4559	1.4335	1.4433
0.0200	1.2004	2.1933	2.6335	2.0779	1.9333	1.9077
0.0400	1.3644	0.9336	1.7119	1.5900	1.5099	1.4488
0.0600	1.2330	1.6772	2.5111	2.0880	1.9443	1.9066
0.0800	1.3622	1.0444	1.8336	2.7055	1.9610	1.9331
0.1000	1.2255	1.5599	2.3113	2.0778	1.9447	1.9399
0.1500	1.3755	1.1331	1.9447	1.8288	1.7229	1.6455
0.2133	1.2899	1.5022	1.7994	2.0166	1.9299	1.9033
0.2533	1.4077	1.2116	1.0669	1.9252	1.8655	1.7799
0.3033	1.2888	1.4411	1.6411	1.9700	1.9088	1.8665
0.3533	1.4611	1.2298	1.1633	1.0669	1.9779	1.9066
0.4167	1.4167	1.3666	1.4422	1.9111	1.0066	1.0070
0.4567	1.4944	1.3665	1.2466	1.1631	1.0877	1.0222
0.5067	1.1855	1.2711	1.3378	1.8766	1.8700	1.8644
0.5567	1.5199	1.4111	1.3317	1.2556	1.1922	1.1433
0.5867	1.1059	1.5772	1.3348	1.8448	1.8533	1.8544
0.6300	1.5266	1.4225	1.3348	1.3055	1.2557	1.2244
0.6500	1.0115	1.0660	1.1955	1.8137	1.8334	1.8555
0.6700	1.9415	1.9777	1.0777	1.3011	1.2668	1.2455
0.6800	1.9700	1.0133	1.1699	1.8011	1.8226	1.8477
0.6900	1.3330	1.2677	1.2166	1.1888	1.1611	1.1477
0.7100	1.8933	1.9566	1.1332	1.7888	1.8188	1.8388
0.7200	1.2744	1.2744	1.4463	1.4333	1.4088	1.3922
0.7300	1.6645	1.5523	1.2467	1.4433	1.4188	1.4055
0.7400	1.8177	1.9211	1.0994	1.7445	1.8022	1.8322
0.7500	1.6032	1.6155	1.8880	1.0663	1.4708	1.7866
0.7600	1.7522	1.7556	1.7166	1.7144	1.7011	1.7000
0.7800	1.8220	1.7820	1.8333	1.6744	1.7864	1.7122
0.8100	1.7778	1.7820	1.8333	1.6744	2.0966	2.5133
0.8200	1.7820	1.8000	1.8333	1.6744	1.7866	1.8066
0.8300	1.6880	1.6133	1.6444	1.6444	1.7866	1.8066
0.8533	1.8902	1.8833	1.0447	1.6144	1.7866	1.8066
0.8733	1.4833	1.4833	1.4833	1.6144	1.7866	1.8066
0.8833	1.8666	1.9199	1.0449	1.6223	1.7455	1.7977
0.9033	1.5551	1.4884	1.4448	1.5166	1.7377	1.8466
0.9133	1.7211	1.7373	1.3388	1.5944	1.7377	1.7922
0.9333	1.5033	1.4446	1.3388	1.4665	1.5933	1.7333
0.9433	1.0333	1.0447	1.1022	1.5665	1.7225	1.7855
0.9633	1.4033	1.4177	1.3533	1.5338	1.7099	1.7744
0.9733	1.1466	1.1477	1.1449	1.5338	1.7111	1.7777
0.9833	1.4114	1.4166	1.3400	1.4334	1.5277	1.5722
0.9933	1.3318	1.2291	1.2288	1.5338	1.5338	1.5338
1.0033	1.3318	1.3318	1.3318	1.5338	1.5338	1.5338
1.0133	1.3888	1.3773	1.2999	1.4441	1.5455	1.5344
1.0233	1.2280	1.2267	1.1996	1.4884	1.7000	1.7777
1.0333	1.4433	1.2260	1.1996	1.4441	1.3855	1.5688
1.0433	1.2669	1.2662	1.1998	1.4772	1.6822	1.7700
1.0533	1.3055	1.3003	1.2331	1.4335	1.6166	1.6755
1.0583	1.3304	1.2977	1.2226	1.4557	1.6544	1.7644

$M = 0.90$

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	1.5511	0.9100	1.4235	1.8554	2.1333	1.9337
0.0100	1.2477	0.7777	1.5607	1.4559	1.4335	1.4433
0.0200	1.3443	2.1933	2.6335	2.0779	1.9333	1.9077
0.0400	1.3233	0.9733	1.7933	1.5900	1.5099	1.4488
0.0600	1.3335	2.1622	2.4449	2.0880	1.9443	1.9066
0.0800	1.3119	1.0881	1.8336	2.7055	1.9610	1.9331
0.1000	1.1288	1.4330	1.7666	2.0284	1.9077	1.8422
0.1500	1.3111	1.0800	1.8998	1.7655	1.6788	1.6044
0.2133	1.1557	1.3338	1.8609	1.9771	1.8633	1.8333
0.2533	1.3288	1.1688	1.9010	1.9991	1.8099	1.7500
0.3033	1.1533	1.2977	1.5244	1.9344	1.8388	1.8266
0.3533	1.3165	1.2336	1.1009	1.0003	1.9288	1.8711
0.4167	1.1128	1.2236	1.4011	1.8775	1.8200	1.8133
0.4567	1.4077	1.2293	1.1177	1.0332	1.8322	1.8133
0.5067	1.0922	1.1622	1.2998	1.8223	1.8000	1.7966
0.5567	1.4438	1.3331	1.2557	1.1773	1.1377	1.1211
0.5867	1.1020	1.0776	1.2286	1.1774	1.1785	1.1783
0.6300	1.4664	1.3811	1.2955	1.1888	1.1788	1.1777
0.6500	1.9449	1.9223	1.1577	1.6911	1.7677	1.7666
0.6700	1.4666	1.3897	1.2284	1.1218	1.2129	1.2355
0.6800	1.9144	1.9445	1.1677	1.6777	1.7622	1.7566
0.6900	1.4441	1.3557	1.1160	1.1300	1.1411	1.1522
0.7100	1.8449	1.8877	1.1104	1.6400	1.7633	1.7477
0.7200	1.4543	1.4880	1.4522	1.3866	1.4000	1.4300
0.7300	1.8553	1.9122	1.1422	1.7933	1.4200	1.4477
0.7400	1.4771	1.8443	1.0668	1.5551	1.7311	1.7300
0.7500	1.8598	1.8540	1.4894	1.4355	1.4666	1.5139
0.7600	1.8100	1.8077	1.8007	1.4355	1.7599	1.8611
0.7800	1.8112	1.7990	1.7226	1.6799	1.7599	1.8611
0.8100	1.9466	1.9682	1.8881	1.4000	2.0066	2.8422
0.8200	1.8100	1.7899	1.8007	1.4355	1.7599	1.8611
0.8300	1.5771	1.5888	1.5622	1.5338	1.6833	1.8066
0.8533	1.7444	1.8066	1.0222	1.4288	1.6933	1.7099
0.8733	1.8733	1.3411	1.7211	1.3055	1.4677	1.5755
0.8833	1.8055	1.8444	1.0122	1.3466	1.6700	1.6999
0.9033	1.2881	1.2668	1.2227	1.2066	1.3888	1.4855
0.9133	1.8666	1.9088	1.0221	1.2999	1.6359	1.6922
0.9333	1.8333	1.8299	1.1622	1.3400	1.3300	1.4877
0.9433	1.9339	1.9677	1.0433	1.2633	1.6500	1.6888
0.9633	1.1622	1.1622	1.1222	1.0977	1.2884	1.3722
0.9733	1.1015	1.1015	1.0822	1.0611	1.2555	1.3388
1.0033	1.0822	1.0822	1.0611	1.0400	1.2333	1.3177
1.0133	1.0611	1.0611	1.0400	1.0188	1.2122	1.2977
1.0233	1.0400	1.0400	1.0188	0.9977	1.1911	1.2766
1.0333	1.0188	1.0188	0.9977	0.9766	1.1699	1.2555
1.0433	0.9977	0.9977	0.9766	0.9555	1.1488	1.2344
1.0533	0.9766	0.9766	0.9555	0.9344	1.1277	1.2133
1.0583	0.9555	0.9555	0.9344	0.9133	1.1066	1.1922

TABLE 29.- PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.

 $\delta_f = -20^\circ$ ,  $\delta_r = 20^\circ$  $M = 0.60$ 

$\frac{x}{c}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	1.448	1.127	1.963	2.143	2.057	1.912
0.0100	1.278	0.856	1.483	2.403	2.406	1.827
0.0200	1.177	0.760	2.637	2.072	1.924	1.827
0.0300	1.074	0.871	1.658	1.511	1.445	1.394
0.0400	1.138	1.524	1.859	2.049	1.908	1.856
0.0500	1.266	0.980	1.768	1.629	1.547	1.476
0.0600	1.160	1.449	1.775	2.019	1.906	1.858
0.0700	1.280	1.071	1.890	1.749	1.671	1.590
0.0800	1.185	1.357	1.642	1.922	1.868	1.843
0.0900	1.301	1.158	1.922	1.801	1.732	1.689
0.1000	1.182	1.319	1.546	1.974	1.845	1.828
0.1100	1.338	1.218	1.087	1.981	1.914	1.851
0.1200	1.159	1.260	1.433	1.939	1.835	1.810
0.1300	1.377	1.269	1.167	1.075	1.015	0.978
0.1400	1.129	1.185	1.347	1.896	1.813	1.780
0.1500	1.402	1.309	1.227	1.151	1.111	1.089
0.1600	1.049	1.114	1.264	1.839	1.793	1.752
0.1700	1.414	1.339	1.267	1.204	1.186	1.180
0.1800	1.075	1.028	1.213	1.773	1.771	1.735
0.1900	1.241	1.358	1.267	1.131	1.222	1.228
0.2000	1.084	1.224	1.103	1.738	1.765	1.725
0.2100	1.391	1.328	1.273	1.233	1.232	1.251
0.2200	1.084	1.235	1.163	1.687	1.754	1.716
0.2300	1.210	1.424	1.239	1.322	1.344	1.370
0.2400	1.492	1.432	1.375	1.328	1.344	1.370
0.2500	1.004	1.468	1.135	1.650	1.730	1.706
0.2600	1.297	1.421	1.157	1.403	1.436	1.461
0.2700	1.077	1.841	1.096	1.579	1.706	1.683
0.2800	1.224	1.699	1.637	1.607	1.677	1.754
0.2900	1.477	1.746	1.721	1.732	1.866	2.024
0.3000	1.189	1.821	1.669	1.830	1.666	1.677
0.3100	1.460	1.463	1.432	1.431	1.544	1.659
0.3200	1.786	1.832	1.072	1.491	1.653	1.682
0.3300	1.073	1.290	1.076	1.325	1.421	1.421
0.3400	1.883	1.909	1.076	1.453	1.636	1.679
0.3500	1.247	1.216	1.174	1.147	1.238	1.321
0.3600	1.964	1.987	1.091	1.409	1.611	1.677
0.3700	1.131	1.165	1.123	1.104	1.175	1.243
0.3800	1.060	1.079	1.112	1.071	1.502	1.667
0.3900	1.113	1.122	1.090	1.071	1.128	1.168
0.4000	1.138	1.124	1.058	1.058	1.554	1.666
0.4100	1.058	1.133	1.081	1.062	1.079	1.126
0.4200	1.468	1.458	1.244	1.309	1.547	1.656
0.4300	1.024	1.056	1.052	1.035	1.069	1.082
0.4400	1.013	1.049	1.051	1.046	1.079	1.094
0.4500	1.023	1.236	1.162	1.227	1.585	1.650
0.4600	1.033	1.010	1.017	1.027	1.146	1.176
0.4700	1.104	1.103	1.103	1.102	1.566	1.646
0.4800	1.053	1.053	1.053	1.053	1.200	1.293
0.4900	1.058	0.985	1.048	1.162	1.473	1.620

 $M = 0.80$ 

$\frac{x}{c}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	1.504	0.999	1.509	1.876	2.105	2.029
0.0100	1.261	0.788	1.456	2.147	1.975	1.946
0.0200	1.261	2.386	2.858	2.147	1.975	1.946
0.0300	1.318	0.915	1.708	2.583	1.507	1.445
0.0400	1.255	1.709	2.701	2.120	1.973	1.952
0.0500	1.323	1.024	1.831	2.696	1.604	1.529
0.0600	1.299	1.617	2.460	2.133	1.975	1.953
0.0700	1.344	1.117	1.944	2.817	1.725	1.884
0.0800	1.316	1.522	1.745	2.010	1.946	1.930
0.0900	1.379	1.200	1.050	1.942	1.858	1.778
0.1000	1.314	1.460	1.571	1.950	1.930	1.916
0.1100	1.419	1.274	1.144	1.048	1.972	1.901
0.1200	1.283	1.385	1.476	1.901	1.903	1.897
0.1300	1.468	1.339	1.223	1.146	1.082	1.020
0.1400	1.235	1.290	1.377	1.871	1.886	1.870
0.1500	1.495	1.397	1.294	1.233	1.186	1.139
0.1600	1.124	1.192	1.292	1.846	1.870	1.847
0.1700	1.515	1.416	1.338	1.293	1.261	1.229
0.1800	1.048	1.101	1.222	1.801	1.846	1.833
0.1900	1.498	1.313	1.313	1.313	1.296	1.270
0.2000	1.003	1.057	1.191	1.816	1.840	1.825
0.2100	1.462	1.361	1.326	1.309	1.301	1.287
0.2200	1.157	1.203	1.248	1.787	1.831	1.821
0.2300	1.574	1.486	1.428	1.406	1.398	1.388
0.2400	1.478	1.494	1.439	1.419	1.409	1.405
0.2500	1.848	1.956	1.127	1.735	1.816	1.816
0.2600	1.750	1.472	1.457	1.457	1.461	1.458
0.2700	1.740	1.919	1.096	1.722	1.799	1.810
0.2800	1.742	1.688	1.661	1.661	1.677	1.694
0.2900	1.630	1.589	1.630	1.589	1.589	1.589
0.3000	1.724	1.889	1.069	1.632	1.777	1.806
0.3100	1.552	1.511	1.522	1.666	1.938	2.056
0.3200	1.837	1.923	1.000	1.611	1.760	1.800
0.3300	1.509	1.483	1.509	1.483	1.721	1.888
0.3400	1.926	1.979	1.106	1.590	1.756	1.803
0.3500	1.459	1.420	1.386	1.415	1.545	1.682
0.3600	1.017	1.131	1.138	1.366	1.476	1.558
0.3700	1.425	1.352	1.343	1.366	1.476	1.558
0.3800	1.120	1.146	1.102	1.533	1.730	1.797
0.3900	1.315	1.377	1.315	1.360	1.457	1.503
0.4000	1.253	1.253	1.253	1.508	1.718	1.793
0.4100	1.360	1.368	1.298	1.356	1.443	1.474
0.4200	1.530	1.555	1.388	1.508	1.718	1.795
0.4300	1.345	1.358	1.285	1.329	1.432	1.415
0.4400	1.532	1.406	1.359	1.504	1.710	1.748
0.4500	1.329	1.276	1.211	1.374	1.514	1.477
0.4600	1.221	1.221	1.221	1.494	1.695	1.790
0.4700	1.275	1.231	1.174	1.372	1.580	1.611
0.4800	1.268	1.238	1.185	1.435	1.675	1.779

 $M = 0.90$ 

$\frac{x}{c}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	1.555	0.909	1.245	1.628	1.890	1.928
0.0100	1.280	0.769	1.593	2.503	2.406	1.827
0.0200	1.380	2.317	2.829	2.503	2.406	1.827
0.0300	1.328	0.969	1.781	2.648	2.406	1.827
0.0400	1.373	2.157	2.459	2.426	2.406	1.827
0.0500	1.449	1.068	1.887	2.687	2.406	1.827
0.0600	1.419	2.014	2.349	2.412	2.406	1.827
0.0700	1.368	1.153	1.997	2.876	2.406	1.827
0.0800	1.407	1.246	2.257	2.406	2.406	1.827
0.0900	1.461	1.698	2.151	2.171	2.406	1.827
0.1000	1.458	1.324	1.805	1.105	2.406	1.827
0.1100	1.421	1.658	1.939	2.091	2.406	1.827
0.1200	1.528	1.392	1.291	1.201	2.406	1.827
0.1300	1.324	1.359	1.783	2.027	2.406	1.827
0.1400	1.563	1.440	1.355	1.285	2.406	1.827
0.1500	1.193	1.221	1.468	1.963	2.406	1.827
0.1600	1.568	1.467	1.396	1.336	2.406	1.827
0.1700	1.091	1.125	1.376	1.902	2.406	1.827
0.1800	1.528	1.456	1.393	1.351	2.406	1.827
0.1900	1.038	1.087	1.347	1.884	2.406	1.827
0.2000	1.457	1.406	1.360	1.332	2.406	1.827
0.2100	1.949	1.050	1.316	1.852	2.406	1.827
0.2200	1.522	1.521	1.474	1.431	2.406	1.827
0.2300	1.576	1.526	1.482	1.440	2.406	1.827
0.2400	1.877	1.030	1.286	1.822	2.406	1.827
0.2500	1.595	1.550	1.509	1.509	2.406	1.827
0.2600	1.004	1.014	1.282	1.792	2.406	1.827
0.2700	1.710	1.693	1.659	1.628	2.406	1.827
0.2800	1.957	1.686	1.652	2.347	2.406	1.827
0.2900	1.792	1.001	1.199	1.702	2.406	1.827
0.3000	1.657	1.650	1.613	2.084	2.406	1.827
0.3100	1.859	1.991	1.066	1.711	2.406	1.827
0.3200	1.018	1.603	1.597	1.840	2.406	1.827
0.3300	1.943	1.011	1.033	1.684	2.406	1.827
0.3400	1.789	1.582	1.518	1.759	2.406	1.827
0.3500	1.032	1.067	1.055	1.659	2.406	1.827
0.3600	1.759	1.599	1.537	1.792	2.406	1.827
0.3700	1.134	1.156	1.137	1.628	2.406	1.827
0.3800	1.723	1.600	1.546	1.736	2.406	1.827
0.3900	1.268	1.301	1.279	1.761	2.406	1.827
0.4000	1.657	1.596	1.541	1.761	2.406	1.827
0.4100	1.484	1.546	1.509	1.615	2.406	1.827
0.4200	1.555	1.490	1.449	1.695	2.406	1.827
0.4300	1.633	1.562	1.504	1.711	2.406	1.827
0.4400	1.077	1.038	1.037	1.598	2.406	1.827
0.4500	1.621	1.546	1.492	1.711	2.406	1.827
0.4600	1.459	1.508	1.460	1.592	2.406	1.827
0.4700	1.174	1.508	1.450	1.592	2.406	1.827
0.4800	1.421	1.523	1.473	1.594	2.406	1.827

 $M = 0.93$ 

$\frac{x}{c}$ (a)
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TABLE 30. - PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.  
( $\delta_f = 20^\circ$ ;  $\delta_s = 10^\circ$ )

M=0.60							M=0.80						
$\frac{x}{c}$ (a)	s						$\frac{x}{c}$ (a)	s					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$		$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	1.470	.904	1.813	2.043	2.149	1.874	0.0000	.494	.922	1.449	1.800	2.109	
0.0100	1.459	.732	1.499	1.408	1.403	1.427	0.0100	1.375	.755	1.536	1.461	1.439	
0.0200	1.015	1.636	2.491	2.034	1.905	1.849	0.0200	1.176	2.135	2.877	2.093	1.938	
0.0400	1.385	.933	1.686	.520	.455	.410	0.0400	1.386	.955	.723	.568	.510	
0.0600	1.071	1.427	1.796	2.007	1.893	1.844	0.0600	1.211	1.641	2.801	2.092	1.940	
0.0800	1.349	1.027	1.503	.649	.559	.496	0.0800	1.379	.063	.839	.706	.653	
0.1000	1.106	1.382	1.723	1.984	1.884	1.845	0.1000	1.238	1.567	2.656	2.083	1.943	
0.1500	1.353	1.112	1.916	.775	.687	.613	0.1500	1.389	1.154	.952	.825	.731	
0.2133	1.709	1.305	1.566	1.928	1.851	1.835	0.2133	1.756	1.476	1.579	1.992	1.917	
0.2533	1.374	1.192	1.031	.906	.826	.759	0.2533	1.459	1.247	1.069	.952	.864	
0.3033	1.126	1.252	1.479	1.880	1.825	1.824	0.3033	1.255	1.410	1.484	1.936	1.905	
0.3533	1.420	1.271	1.131	1.018	.946	.891	0.3533	1.478	1.332	1.165	1.063	.983	
0.4167	1.096	1.190	1.347	1.537	1.505	1.513	0.4167	1.216	1.327	1.403	1.878	1.863	
0.4567	1.456	1.329	1.214	1.115	1.061	1.017	0.4567	1.519	1.391	1.249	1.162	1.098	
0.5067	1.038	1.106	1.239	1.793	1.793	1.800	0.5067	1.156	1.220	1.295	1.835	1.868	
0.5567	1.498	1.398	1.293	1.277	1.250	1.247	0.5567	1.446	1.441	1.325	1.251	1.201	
0.5867	.966	1.019	1.159	1.744	1.777	1.788	0.5867	1.055	1.110	1.187	1.794	1.852	
0.6300	1.531	1.440	1.346	1.273	1.251	1.245	0.6300	1.557	1.467	1.372	1.315	1.272	
0.6500	.887	1.921	1.227	1.577	1.750	1.766	0.6500	.928	1.004	1.099	1.749	1.834	
0.6700	1.556	1.470	1.389	1.315	1.311	1.310	0.6700	1.558	1.481	1.397	1.349	1.315	
0.6800	1.848	1.676	1.069	1.655	1.753	1.755	0.6800	.913	.934	1.066	1.750	1.827	
0.6900	1.542	1.58	1.380	1.312	1.319	1.324	0.6900	1.538	1.454	1.372	1.328	1.305	
0.7100	.771	1.610	1.341	1.512	1.742	1.736	0.7100	.826	.896	.967	1.727	1.819	
0.7200	1.647	1.576	1.486	1.418	1.429	1.450	0.7200	1.632	1.572	1.487	1.439	1.410	
0.7400	1.665	1.595	1.506	1.435	1.453	1.478	0.7400	1.639	1.579	1.497	1.453	1.431	
0.7500	1.773	1.649	1.566	1.495	1.523	1.561	0.7500	1.826	1.781	1.681	1.677	1.684	
0.7700	1.618	.747	1.975	1.487	1.693	1.700	0.7700	1.662	1.610	1.534	1.491	1.470	
0.7800	2.033	1.871	1.979	1.512	1.742	1.736	0.7800	1.656	.837	.979	1.655	1.786	
0.8100	2.286	2.231	2.129	2.041	2.218	2.472	0.8100	2.205	2.156	2.250	2.511	2.694	
0.8200	1.593	1.728	1.950	1.432	1.682	1.698	0.8200	1.674	.836	.964	1.616	1.767	
0.8300	1.650	1.721	.939	1.574	1.667	1.698	0.8300	2.049	2.023	2.062	2.110	2.465	
0.8533	1.611	1.581	1.506	1.461	1.649	1.776	0.8533	.703	.806	.927	1.597	1.756	
0.8733	1.605	1.730	1.932	1.326	1.659	1.693	0.8733	1.956	1.886	1.733	1.830	1.999	
0.8933	1.605	1.730	1.932	1.326	1.659	1.693	0.8933	.751	.854	.962	1.569	1.748	
0.9133	1.736	.755	.932	1.285	1.649	1.687	0.9133	1.892	.835	.973	1.540	1.739	
0.9333	1.412	1.407	1.351	1.308	1.591	1.735	0.9333	1.896	1.794	1.545	1.620	1.659	
0.9433	1.778	.778	.932	1.285	1.649	1.687	0.9433	1.752	1.653	1.490	1.575	1.817	
0.9633	1.358	1.354	1.300	1.259	1.634	1.783	0.9633	1.895	.871	.991	1.463	1.697	
0.9733	1.759	.785	.930	1.162	1.612	1.665	0.9733	1.895	.871	.991	1.463	1.697	
0.9833	1.80	1.15	1.265	1.135	1.599	1.777	0.9833	1.804	1.623	1.459	1.535	1.786	
1.0033	.736	.775	.919	1.133	1.594	1.656	1.0033	1.657	1.534	1.397	1.532	1.896	
1.0133	1.288	1.283	1.247	1.222	1.976	2.285	1.0133	1.625	1.526	1.378	1.505	1.783	
1.0233	1.258	1.245	1.198	1.164	1.758	1.853	1.0233	.877	.935	1.038	1.456	1.707	
1.0333	.809	.828	.848	1.118	1.605	1.676	1.0333	1.563	1.462	1.332	1.476	1.729	
1.0433	1.219	1.191	1.155	1.129	1.660	1.812	1.0433	1.059	1.078	1.113	1.442	1.705	
1.0533	.950	.946	1.010	1.103	1.600	1.680	1.0533	1.471	1.471	1.471	1.471	1.471	
1.0583	1.134	1.127	1.099	1.102	1.591	1.678	1.0583	1.350	1.327	1.247	1.431	1.682	

M=0.90							M=0.93						
$\frac{x}{c}$ (a)	s						$\frac{x}{c}$ (a)	s					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$		$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
.0000	.541	.878	1.214	1.584			.0000	.547	.842	1.153			
.0100	1.310	.795	1.603	2.009			.0100	1.280	.806	1.089			
.0200	1.306	.921	1.787	2.553			.0200	1.337	.934	2.445			
.0400	1.380	.991	1.787	2.553			.0400	1.366	.992	2.800			
.0600	1.327	2.121	2.462	2.350			.0600	1.350	2.066	2.378			
.0800	1.387	1.089	2.492	2.777			.0800	1.367	1.091	2.910			
.1000	1.359	1.709	2.339	2.305			.1000	1.387	1.932	2.284			
.1500	1.410	1.174	1.007	.882			.1500	1.400	1.177	1.014			
.2133	1.401	1.709	2.267	2.221			.2133	1.444	1.716	2.212			
.2533	1.453	1.266	1.121	1.009			.2533	1.444	1.269	1.127			
.3033	1.396	1.684	2.062	2.152			.3033	1.449	1.743	2.128			
.3533	1.517	1.353	1.219	1.116			.3533	1.507	1.357	1.229			
.4167	1.339	1.481	1.943	2.071			.4167	1.393	1.777	1.919			
.4567	1.584	1.415	1.303	1.209			.4567	1.574	1.431	1.310			
.5067	1.230	1.273	1.494	1.994			.5067	1.250	1.350	1.932			
.5567	1.125	1.143	1.363	1.937			.5567	1.624	1.479	1.373			
.6300	1.185	1.143	1.396	1.477			.6300	1.586	1.392	1.542			
.6500	1.601	1.466	1.398	1.336			.6500	1.652	1.460	1.397			
.6700	1.011	1.037	1.345	1.879			.6700	1.021	1.095	1.455			
.6800	1.535	1.470	1.410	1.364			.6800	1.621	1.447	1.401			
.6900	.952	1.999	1.324	1.867			.6900	.962	1.059	1.448			
.7000	1.408	1.483	1.367	1.329			.7000	1.338	1.399	1.333			
.7100	.866	.967	1.306	1.635			.7100	.877	1.045	1.476			
.7200	1.580	1.528	1.483	1.444			.7200	1.637	1.505	1.465			
.7300	1.587	1.534	1.490	1.452			.7300	1.633	1.511	1.472			
.7400	.811	.951	1.282	1.796			.7400	.826	1.036	1.489			
.7500	1.610	1.562	1.517	1.478			.7500	1.633	1.530	1.497			
.7700	.940	1.236	1.774				.7700	.920	1.243				
.7800	1.689	1.645	1.614				.7800	1.702	1.647	1.622			
.8100	2.510	2.472	2.492	2.491			.8100	2.457	2.420	2.425			
.8200	.934	1.152	1.726				.8200	.775	1.021	1.397			
.8300	2.370	2.358	2.370	2.365			.8300	2.347	2.313	2.310			
.8533	.759	.901	1.012	1.691			.8533	.770	.961	1.198			
.8733	2.100	1.920	1.881	2.854			.8733	2.314	1.951	2.048			
.8933	.795	.885	.915	1.660			.8933	.806	.927	.972			
.9033	1.979	1.863	1.791	1.963			.9033	2.222	1.887	1.935			
.9133	.837	.892	.872	1.629			.9133	.846	.898	1.840			
.9333	1.930	1.798	1.757	1.822			.9333	1.967	1.852	1.844			
.9433	.871	.906	1.081	1.591			.9433	.880	.903	.883			
.9633	1.862	1.749	1.788	1.851			.9633	1.908	1.775	1.769			
.9733	.883	.925	.906	1.777			.9733	.892	.922	.920			
.9833	1.813	1.755	1.797	1.817			.9833	1.874	1.729	1.745			
.9933	.866	.930	.908	1.520			.9933	.880	.926	.903			
1.0033	1.785	1.748	1.780	1.817			1.0033	1.855	1.688	1.741			
1.0133	1.773	1.757	1.761	1.793			1.0133	1.813	1.700	1.747			
1.0233	.952	1.007	.976	1.569			1.0233	.960	1.002	.986			
1.0333	1.742	1.727	1.713	1.768			1.0333	1.830	1.713	1.738			
1.0433	1.148	1.177	1.143	1.333			1.0433	1.043	1.077	1.165			
1.0533	1.697	1.690	1.634	1.714			1.0533	1.786	1.706	1.696			
1.0583	1.515	1.509	1.436	1.598			1.0583	1.542	1.517	1.509			

TABLE 31.- PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.

 $(\delta_f = 20^\circ; \delta_r = 20^\circ)$ 

$\frac{X}{C}$ (a)	M=0.60					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	1.482	.893	1.774	2.042	2.032	1.864
0.0100	1.483	.744	.493	.407	1.403	1.423
0.0200	1.483	1.627	2.478	2.048	1.887	1.728
0.0400	1.483	.943	.687	.529	1.452	1.407
0.0600	1.059	1.423	1.820	2.020	1.875	1.822
0.0800	1.355	1.036	.813	.649	1.553	1.503
0.1000	1.097	1.329	1.741	1.998	1.863	1.821
0.1500	1.359	1.125	.923	.780	1.679	1.616
0.2133	1.124	1.299	1.571	1.931	1.824	1.814
0.2533	1.378	1.201	1.033	1.863	1.802	1.808
0.3033	1.121	1.252	1.455	1.911	1.814	1.756
0.3533	1.430	1.271	1.135	1.018	1.929	1.885
0.4167	1.087	1.179	1.334	1.820	1.773	1.712
0.4567	1.476	1.345	1.224	1.118	1.824	1.794
0.5067	1.028	1.091	1.207	1.776	1.755	1.775
0.5567	1.518	1.417	1.301	1.212	1.155	1.144
0.5867	1.950	1.938	1.684	1.721	1.738	1.761
0.6300	1.545	1.465	1.361	1.265	1.239	1.248
0.6500	1.853	1.903	1.053	1.645	1.727	1.747
0.6700	1.565	1.487	1.391	1.310	1.288	1.303
0.6800	1.819	1.831	1.338	1.680	1.724	1.739
0.6900	1.552	1.475	1.388	1.324	1.305	1.334
0.7100	1.742	1.787	1.299	1.576	1.700	1.718
0.7200	1.681	1.611	1.132	1.429	1.415	1.458
0.7300	1.591	1.697	1.527	1.446	1.438	1.485
0.7400	1.669	1.753	1.965	1.506	1.689	1.707
0.7500	1.757	1.689	1.593	1.511	1.643	1.692
0.7700	1.933	1.732	1.452	1.452	1.627	1.656
0.7800	2.077	2.036	1.911	1.623	1.847	1.947
0.8100	2.480	2.439	2.285	1.825	2.272	2.366
0.8200	2.567	2.507	2.295	1.825	2.272	2.366
0.8300	2.567	2.507	2.295	1.825	2.272	2.366
0.8400	2.567	2.507	2.295	1.825	2.272	2.366
0.8500	2.567	2.507	2.295	1.825	2.272	2.366
0.8600	2.567	2.507	2.295	1.825	2.272	2.366
0.8700	2.567	2.507	2.295	1.825	2.272	2.366
0.8800	2.567	2.507	2.295	1.825	2.272	2.366
0.8900	2.567	2.507	2.295	1.825	2.272	2.366
0.9000	2.567	2.507	2.295	1.825	2.272	2.366
0.9100	2.567	2.507	2.295	1.825	2.272	2.366
0.9200	2.567	2.507	2.295	1.825	2.272	2.366
0.9300	2.567	2.507	2.295	1.825	2.272	2.366
0.9400	2.567	2.507	2.295	1.825	2.272	2.366
0.9500	2.567	2.507	2.295	1.825	2.272	2.366
0.9600	2.567	2.507	2.295	1.825	2.272	2.366
0.9700	2.567	2.507	2.295	1.825	2.272	2.366
0.9800	2.567	2.507	2.295	1.825	2.272	2.366
0.9900	2.567	2.507	2.295	1.825	2.272	2.366
1.0000	2.567	2.507	2.295	1.825	2.272	2.366

$\frac{X}{C}$ (a)	M=0.80					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	.504	.929	1.465	1.823	2.069	1.966
0.0100	1.377	.748	.453	.459	1.443	1.453
0.0200	1.170	2.118	2.539	2.070	1.943	1.915
0.0400	1.390	.949	.725	.590	1.508	1.452
0.0600	1.206	1.628	2.749	2.039	1.945	1.920
0.0800	1.382	1.049	.839	.705	1.589	1.506
0.1000	1.238	1.571	2.565	2.084	1.952	1.922
0.1500	1.397	1.138	1.953	1.931	1.730	1.656
0.2133	1.261	1.463	1.637	1.969	1.917	1.905
0.2533	1.423	1.284	1.066	1.953	1.859	1.792
0.3033	1.243	1.389	1.524	1.918	1.895	1.901
0.3533	1.477	1.304	1.170	1.968	1.870	1.886
0.4167	1.199	1.304	1.406	1.859	1.894	1.861
0.4567	1.517	1.374	1.253	1.165	1.086	1.035
0.5067	1.119	1.193	1.280	1.826	1.849	1.878
0.5567	1.546	1.430	1.330	1.259	1.194	1.156
0.5867	1.931	1.977	1.178	1.796	1.834	1.869
0.6300	1.561	1.461	1.377	1.319	1.265	1.241
0.6500	1.932	1.967	1.090	1.711	1.821	1.857
0.6700	1.551	1.462	1.344	1.729	1.809	1.851
0.6800	1.883	1.918	1.058	1.759	1.821	1.857
0.6900	1.506	1.436	1.374	1.335	1.301	1.282
0.7000	1.785	1.863	1.421	1.729	1.809	1.851
0.7100	1.633	1.557	1.491	1.449	1.410	1.405
0.7200	1.638	1.564	1.499	1.459	1.424	1.418
0.7300	1.700	1.630	1.584	1.544	1.508	1.492
0.7400	1.556	1.497	1.439	1.502	1.466	1.471
0.7500	1.681	1.609	1.581	1.661	1.772	1.832
0.7700	1.810	1.772	1.734	1.700	1.677	1.652
0.7800	2.010	2.022	2.000	2.000	2.000	2.000
0.8100	2.459	2.459	2.459	2.459	2.459	2.459
0.8200	2.459	2.459	2.459	2.459	2.459	2.459
0.8300	2.459	2.459	2.459	2.459	2.459	2.459
0.8400	2.459	2.459	2.459	2.459	2.459	2.459
0.8500	2.459	2.459	2.459	2.459	2.459	2.459
0.8600	2.459	2.459	2.459	2.459	2.459	2.459
0.8700	2.459	2.459	2.459	2.459	2.459	2.459
0.8800	2.459	2.459	2.459	2.459	2.459	2.459
0.8900	2.459	2.459	2.459	2.459	2.459	2.459
0.9000	2.459	2.459	2.459	2.459	2.459	2.459
0.9100	2.459	2.459	2.459	2.459	2.459	2.459
0.9200	2.459	2.459	2.459	2.459	2.459	2.459
0.9300	2.459	2.459	2.459	2.459	2.459	2.459
0.9400	2.459	2.459	2.459	2.459	2.459	2.459
0.9500	2.459	2.459	2.459	2.459	2.459	2.459
0.9600	2.459	2.459	2.459	2.459	2.459	2.459
0.9700	2.459	2.459	2.459	2.459	2.459	2.459
0.9800	2.459	2.459	2.459	2.459	2.459	2.459
0.9900	2.459	2.459	2.459	2.459	2.459	2.459
1.0000	2.459	2.459	2.459	2.459	2.459	2.459

$\frac{X}{C}$ (a)	M=0.90					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
0.0000	.547	.875	1.215	1.485	1.685	1.815
0.0100	1.314	.790	.451	.451	1.473	1.473
0.0200	1.314	2.232	2.565	2.078	1.943	1.915
0.0400	1.366	.982	.789	.649	1.508	1.452
0.0600	1.330	2.105	2.434	2.039	1.945	1.920
0.0800	1.370	1.053	.839	.705	1.589	1.506
0.1000	1.376	1.802	2.304	2.039	1.945	1.920
0.1500	1.394	1.165	1.006	1.931	1.824	1.814
0.2133	1.404	1.680	1.448	1.911	1.802	1.808
0.2533	1.425	1.262	1.117	1.863	1.802	1.808
0.3033	1.395	1.648	1.139	1.825	1.802	1.808
0.3533	1.480	1.350	1.217	1.825	1.802	1.808
0.4167	1.328	1.471	1.906	1.825	1.802	1.808
0.4567	1.552	1.411	1.300	1.825	1.802	1.808
0.5067	1.209	1.257	1.477	1.825	1.802	1.808
0.5567	1.597	1.451	1.363	1.825	1.802	1.808
0.5867	1.950	1.452	1.339	1.825	1.802	1.808
0.6300	1.590	1.452	1.339	1.825	1.802	1.808
0.6500	1.984	1.004	1.384	1.825	1.802	1.808
0.6700	1.523	1.446	1.393	1.825	1.802	1.808
0.6800	1.921	1.966	1.286	1.825	1.802	1.808
0.6900	1.467	1.404	1.359	1.825	1.802	1.808
0.7000	1.833	1.936	1.266	1.825	1.802	1.808
0.7100	1.581	1.517	1.473	1.825	1.802	1.808
0.7200	1.586	1.520	1.473	1.825	1.802	1.808
0.7300	1.700	1.630	1.584	1.825	1.802	1.808
0.7400	1.608	1.548	1.512	1.825	1.802	1.808
0.7500	1.746	1.674	1.624	1.825	1.802	1.808
0.7700	1.708	1.676	1.637	1.825	1.802	1.808
0.7800	2.004	2.004	2.004	2.004	2.004	2.004
0.8100	2.459	2.459	2.459	2.459	2.459	2.459
0.8200	2.459	2.459	2.459	2.459	2.459	2.459
0.8300	2.459	2.459	2.459	2.459	2.459	2.459
0.8400	2.459	2.459	2.459	2.459	2.459	2.459
0.8500	2.459	2.459	2.459	2.459	2.459	2.459
0.8600	2.459	2.459	2.459	2.459	2.459	2.459
0.8700	2.459	2.459	2.459	2.459	2.459	2.459
0.8800	2.459	2.459	2.459	2.459	2.459	2.459
0.8900	2.459	2.459	2.459	2.459	2.459	2.459
0.9000	2.459	2.459	2.459	2.459	2.459	2.459
0.9100	2.459	2.459	2.459	2.459	2.459	2.459
0.9200	2.459	2.459	2.459	2.459	2.459	2.459
0.9300	2.459	2.459	2.459	2.459	2.459	2.459
0.9400	2.459	2.459	2.459	2.459	2.459	2.459
0.9500	2.459	2.459	2.459	2.459	2.459	2.459
0.9600	2.459	2.459	2.459	2.459	2.459	2.459
0.9700	2.459	2.459	2.459	2.459	2.459	2.459
0.9800	2.459	2.459	2.459	2.459	2.459	2.459
0.9900	2.459	2.459	2.459	2.459	2.459	2.459
1.0000	2.459	2.459	2.459	2.459	2.459	2.459

$\frac{X}{C}$ (a)	M=0.93					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ</$

TABLE 32.- PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.

 $(\delta = -30^\circ, \delta_f = 0^\circ)$  $M = 0.60$ 

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.465	.862	1.481	2.020	2.038	1.872
.0100-	1.459	.743	.508	.404	.399	.431
.0200	.988	1.608	1.878	2.007	1.853	1.839
.0400-	1.380	.941	.691	.529	.452	.408
.0600	1.043	1.394	1.771	1.991	1.846	1.837
.0800-	1.332	1.032	.813	.651	.552	.498
.1000	1.066	1.352	1.692	1.959	1.837	1.830
.1500-	1.371	1.216	1.422	1.854	1.781	1.810
.2000	1.089	1.271	1.546	1.906	1.804	1.815
.2500-	1.345	1.200	1.404	.913	.818	.760
.3000	1.071	1.316	1.378	1.777	1.738	1.822
.3500-	1.391	1.277	1.143	1.024	.938	.892
.4000	1.031	1.129	1.277	1.814	1.760	1.786
.4500-	1.437	1.347	1.223	1.123	1.035	1.021
.5000	.946	1.029	1.223	1.744	1.711	1.778
.5500-	1.482	1.408	1.306	1.220	1.163	1.153
.6000	.870	.916	1.093	1.724	1.726	1.750
.6500-	1.531	1.472	1.378	1.287	1.227	1.244
.7000	.770	.810	1.047	1.655	1.714	1.738
.7500-	1.546	1.490	1.404	1.322	1.313	1.331
.8000	.729	.759	1.051	1.631	1.707	1.728
.8500-	1.544	1.504	1.428	1.354	1.354	1.380
.9000	.641	.736	.995	1.585	1.691	1.716
.9500-	1.709	1.837	1.909	1.433	1.444	1.483
1.0000	1.635	1.640	1.592	1.433	1.444	1.483
1.0500-	.578	.722	.965	1.498	1.661	1.697
1.1000	1.682	1.683	1.592	1.512	1.548	1.596
1.1500-	.770	.938	.934	1.468	1.616	1.677
1.2000	1.903	1.949	1.888	1.816	1.911	1.992
1.2500-	1.866	1.958	1.862	1.775	2.101	2.373
1.3000	.820	.837	.909	1.372	1.896	2.292
1.3500-	1.886	1.911	1.816	1.737	2.002	2.292
1.4000	.538	.682	.894	1.337	1.601	1.680
1.4500-	1.679	1.855	1.765	1.685	1.798	1.986
1.5000	.883	.967	.892	1.297	1.598	1.679
1.5500-	1.725	1.773	1.698	1.619	1.669	1.822
1.6000	.675	.702	.902	1.242	1.593	1.678
1.6500-	1.913	1.896	1.636	1.550	1.638	1.783
1.7000	.943	.763	.919	1.175	1.578	1.664
1.7500-	1.597	1.623	1.578	1.479	1.613	1.758
1.8000	.973	.992	1.119	1.119	1.558	1.657
1.8500-	1.504	1.578	1.539	1.432	1.586	1.725
1.9000	.866	.906	.984	1.090	1.534	1.655
1.9500-	1.590	1.581	1.477	1.365	1.601	1.692
2.0000	.903	1.509	1.467	1.352	1.603	1.725
2.0500-	.970	.970	1.028	1.071	1.573	1.682
2.1000	1.547	1.461	1.409	1.297	1.612	1.721
2.1500-	1.043	1.100	1.100	1.076	1.571	1.684
2.2000	1.410	1.402	1.316	1.284	1.558	1.684
2.2500-	1.291	1.321	1.271	1.263	1.548	1.675

 $M = 0.80$ 

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.494	.923	1.429	1.814	2.059	1.951
.0100-	1.370	.746	.535	.460	.438	.447
.0200	1.158	2.094	2.362	2.068	1.954	1.902
.0400-	1.387	.949	.704	.554	.508	.446
.0600	1.193	1.614	2.304	2.065	1.955	1.896
.0800-	1.373	1.056	.847	.680	.610	.531
.1000	1.116	1.537	2.155	2.053	1.956	1.911
.1500-	1.389	1.149	.966	.858	.739	.647
.2000	1.236	1.432	1.939	1.987	1.927	1.893
.2500-	1.419	1.236	1.053	.952	.863	.786
.3000	1.131	1.353	1.748	1.925	1.904	1.888
.3500-	1.468	1.318	1.187	1.075	.984	.909
.4000	1.131	1.246	1.521	1.864	1.877	1.877
.4500-	1.515	1.381	1.266	1.169	1.090	1.085
.5000	1.059	1.119	1.338	1.833	1.862	1.867
.5500-	1.542	1.439	1.341	1.253	1.194	1.140
.6000	.855	.985	1.188	1.807	1.845	1.849
.6500-	1.561	1.469	1.380	1.322	1.265	1.219
.7000	.669	.755	1.071	1.760	1.821	1.837
.7500-	1.549	1.468	1.402	1.349	1.289	1.263
.8000	.729	.759	1.051	1.779	1.817	1.831
.8500-	1.519	1.456	1.359	1.359	1.316	1.286
.9000	.641	.705	.985	1.751	1.808	1.821
.9500-	1.638	1.575	1.515	1.468	1.424	1.397
1.0000	1.658	1.596	1.515	1.468	1.424	1.397
1.0500-	.659	.796	.948	1.681	1.778	1.810
1.1000	1.706	1.644	1.580	1.542	1.512	1.495
1.1500-	.770	.917	.901	1.656	1.752	1.800
1.2000	1.772	1.763	1.728	1.710	1.687	1.683
1.2500-	1.794	1.784	1.777	1.755	2.030	2.128
1.3000	.820	.837	.909	1.372	1.896	2.292
1.3500-	1.774	1.763	1.758	1.727	2.102	2.176
1.4000	.600	.763	.841	1.557	1.722	1.781
1.4500-	1.744	1.733	1.721	1.793	1.771	1.753
1.5000	.859	.959	.960	1.535	1.720	1.779
1.5500-	1.733	1.722	1.704	1.704	1.809	1.894
1.6000	.675	.789	.857	1.509	1.716	1.778
1.6500-	1.913	1.715	1.603	1.603	1.863	1.902
1.7000	.943	.820	.845	.893	1.461	1.693
1.7500-	1.718	1.718	1.694	1.690	1.882	1.895
1.8000	.973	.992	1.119	1.119	1.558	1.725
1.8500-	1.683	1.721	1.700	1.704	1.859	1.880
1.9000	.866	.906	1.019	1.392	1.643	1.740
1.9500-	1.590	1.581	1.477	1.365	1.601	1.692
2.0000	.903	1.509	1.467	1.352	1.603	1.725
2.0500-	.970	.970	1.028	1.071	1.573	1.682
2.1000	1.547	1.461	1.409	1.297	1.612	1.721
2.1500-	1.043	1.100	1.100	1.076	1.571	1.684
2.2000	1.410	1.402	1.316	1.284	1.558	1.684
2.2500-	1.291	1.321	1.271	1.263	1.548	1.675

 $M = 0.90$ 

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.537	.872	1.225			
.0100-	1.296	.795	.599			
.0200	1.301	2.222	2.544			
.0400-	1.316	2.106	2.787			
.0600	1.378	1.100	.898			
.0800-	1.340	1.584	2.282			
.1000	1.408	1.911	2.009			
.1500-	1.366	1.635	2.236			
.2000	1.446	1.282	1.135			
.2500-	1.338	1.539	2.022			
.3000	1.513	1.364	1.222			
.3500-	1.554	1.304	1.528			
.4000	1.579	1.421	1.303			
.4500-	1.523	1.457	1.322			
.5000	1.621	1.459	1.362			
.5500-	.999	1.015	1.188			
.6000	1.609	1.465	1.397			
.6500-	.870	.915	1.111			
.7000	1.529	1.427	1.371			
.7500-	.811	.890	1.053			
.8000	1.473	1.375	1.354			
.8500-	.738	.874	1.085			
.9000	1.562	1.482	1.445			
.9500-	1.560	1.513	1.477			
1.0000	.709	.864	1.082			
1.0500-	1.634	1.610	1.579			
1.1000	.678	.867	1.070			
1.1500-	1.749	1.737	1.698			
1.2000	1.844	1.792	1.859			
1.2500-	1.844	1.792	1.859			
1.3000	1.636	1.788	1.834			
1.3500-	.633	.824	.962			
1.4000	1.811	1.770	1.810			
1.4500-	1.806	1.762	1.803			
1.5000	.757	.809	.923			
1.5500-	1.806	1.757	1.793			
1.6000	.852	.858	.953			
1.6500-	1.809	1.760	1.787			
1.7000	.745	.833	.932			
1.7500-	1.806	1.766	1.778			
1.8000	1.041	1.020	1.080			
1.8500-	1.822	1.766	1.769			
1.9000-	1.817	1.765	1.763			
1.9500-	1.094	1.110	1.157			
2.0000	1.811	1.755	1.740			
2.0500-	1.811	1.755	1.740			
2.1000	1.789	1.739	1.711			
2.1500-	1.623	1.610	1.591			

 $M = 0.93$ 

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.550	.860	1.167			
.0100-	1.297	.814	.627			
.0200	1.336	2.237	2.468			
.0400-	1.384	1.007	.815			
.0600	1.350	2.112	2.373			
.0800-	1.387	1.107	.933			
.1000	1.393	1.905	2.227			
.1500-	1.413	1.196	1.042			
.2000	1.424	1.714	2.150			
.2500-	1.453	1.289	1.159			
.3000	1.399	1.721	2.078			
.3500-	1.510	1.372	1.262			
.4000	1.294	1.387	1.833			
.4500-	1.580	1.443	1.340			
.5000	1.249	1.253	1.457			
.5500-	1.623	1.485	1.399			
.6000	1.017	1.020	1.361			
.6500-	1.662	1.482	1.415			
.7000	.888	.942	1.325			
.7500-	1.615	1.448	1.394			
.8000	.835	.923	1.341			
.8500-	1.520	1.380	1.345			
.9000	1.744	.913	1.362			
.9500-	1.630	1.476	1.461			
1.0000	1.628	1.489	1.469			
.7400	1.774	.911	1.355			
.7500-	1.642	1.533	1.536			
.7600	.720	1.531	1.589			
.7700-	1.750	1.708	1.690			
.7800	1.750	1.641	1.977			
.8100-	1.695	1.620	1.899			
.8300	1.893	1.834	1.962			
.8500-	1.646	1.870	1.956			
.8700	1.067	1.826	1.973			
.8800	.691	.827	.925			
.9000-	1.857	1.813	1.909			
.9100	.771	.822	.856			
.9300-	1.852	1.810	1.889			
.9400	.859	.856	.875			
.9600-	1.847	1.809	1.869			
.9700	.951	.933	.950			
.9800-	1.835	1.816	1.856			
.9900	1.041	1.014	1.040			
1.0000-	1.865	1.802	1.864			
1.0100	.851	.806	.852			
1.0200-	1.099	1.103	1.118			
1.0300	.855	1.794	1.843			
1.0400-	1.255	1.274	1.287			
1.0500	1.823	1.784	1.809			
1.0580-	1.607	1.619	1.632			

TABLE 33- PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.  
 $(\delta_f = -30^\circ; \delta_f = 10^\circ)$

M=0.60							M=0.80						
$\frac{X}{C}$ (a)	S						$\frac{X}{C}$ (a)	S					
	$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$		$\alpha=0^\circ$	$\alpha=4^\circ$	$\alpha=8^\circ$	$\alpha=12^\circ$	$\alpha=16^\circ$	$\alpha=20^\circ$
0.0000	1.478	1.893	1.798	2.030	2.023	1.843	0.0000	1.497	1.986	1.452	1.814	2.105	1.942
0.0100	1.461	1.740	1.497	1.405	1.597	1.421	0.0100	1.378	1.748	1.540	1.457	1.442	1.444
0.0200	1.403	1.622	2.365	2.020	1.878	1.816	0.0200	1.155	2.100	2.899	2.067	1.956	1.898
0.0300	1.381	1.933	1.686	2.027	1.446	1.539	0.0300	1.388	1.952	2.724	2.589	1.511	1.445
0.0400	1.063	1.419	1.781	2.002	1.871	1.821	0.0400	1.191	1.619	2.766	2.067	1.962	1.900
0.0500	1.329	1.033	1.806	1.649	1.552	1.492	0.0500	1.377	1.054	1.838	1.710	1.615	1.528
0.0600	1.100	1.343	1.129	1.774	1.675	1.613	0.0600	1.221	1.557	2.598	2.059	1.937	1.904
0.0700	1.076	1.380	1.720	1.981	1.861	1.814	0.0700	1.390	1.139	1.502	1.999	1.940	1.887
0.0800	1.321	1.116	1.915	1.922	1.818	1.810	0.0800	1.240	1.448	1.106	1.956	1.869	1.779
0.0900	1.103	1.116	1.915	1.922	1.818	1.810	0.0900	1.418	1.229	1.068	1.956	1.917	1.883
0.1000	1.343	1.129	1.031	1.906	1.815	1.756	0.1000	1.242	1.378	1.484	1.956	1.917	1.883
0.1100	1.085	1.240	1.459	1.883	1.793	1.888	0.1100	1.473	1.308	1.167	1.069	1.985	1.900
0.1200	1.357	1.273	1.308	1.838	1.771	1.789	0.1200	1.176	1.270	1.368	1.901	1.896	1.876
0.1300	1.428	1.335	1.223	1.113	1.050	1.013	0.1300	1.513	1.374	1.252	1.167	1.097	1.077
0.1400	1.033	1.159	1.308	1.838	1.771	1.789	0.1400	1.069	1.427	1.329	1.263	1.207	1.138
0.1500	1.428	1.335	1.223	1.113	1.050	1.013	0.1500	1.513	1.374	1.252	1.167	1.097	1.077
0.1600	1.033	1.159	1.308	1.838	1.771	1.789	0.1600	1.069	1.427	1.329	1.263	1.207	1.138
0.1700	1.428	1.335	1.223	1.113	1.050	1.013	0.1700	1.513	1.374	1.252	1.167	1.097	1.077
0.1800	1.033	1.159	1.308	1.838	1.771	1.789	0.1800	1.069	1.427	1.329	1.263	1.207	1.138
0.1900	1.428	1.335	1.223	1.113	1.050	1.013	0.1900	1.513	1.374	1.252	1.167	1.097	1.077
0.2000	1.033	1.159	1.308	1.838	1.771	1.789	0.2000	1.069	1.427	1.329	1.263	1.207	1.138
0.2100	1.428	1.335	1.223	1.113	1.050	1.013	0.2100	1.513	1.374	1.252	1.167	1.097	1.077
0.2200	1.033	1.159	1.308	1.838	1.771	1.789	0.2200	1.069	1.427	1.329	1.263	1.207	1.138
0.2300	1.428	1.335	1.223	1.113	1.050	1.013	0.2300	1.513	1.374	1.252	1.167	1.097	1.077
0.2400	1.033	1.159	1.308	1.838	1.771	1.789	0.2400	1.069	1.427	1.329	1.263	1.207	1.138
0.2500	1.428	1.335	1.223	1.113	1.050	1.013	0.2500	1.513	1.374	1.252	1.167	1.097	1.077
0.2600	1.033	1.159	1.308	1.838	1.771	1.789	0.2600	1.069	1.427	1.329	1.263	1.207	1.138
0.2700	1.428	1.335	1.223	1.113	1.050	1.013	0.2700	1.513	1.374	1.252	1.167	1.097	1.077
0.2800	1.033	1.159	1.308	1.838	1.771	1.789	0.2800	1.069	1.427	1.329	1.263	1.207	1.138
0.2900	1.428	1.335	1.223	1.113	1.050	1.013	0.2900	1.513	1.374	1.252	1.167	1.097	1.077
0.3000	1.033	1.159	1.308	1.838	1.771	1.789	0.3000	1.069	1.427	1.329	1.263	1.207	1.138
0.3100	1.428	1.335	1.223	1.113	1.050	1.013	0.3100	1.513	1.374	1.252	1.167	1.097	1.077
0.3200	1.033	1.159	1.308	1.838	1.771	1.789	0.3200	1.069	1.427	1.329	1.263	1.207	1.138
0.3300	1.428	1.335	1.223	1.113	1.050	1.013	0.3300	1.513	1.374	1.252	1.167	1.097	1.077
0.3400	1.033	1.159	1.308	1.838	1.771	1.789	0.3400	1.069	1.427	1.329	1.263	1.207	1.138
0.3500	1.428	1.335	1.223	1.113	1.050	1.013	0.3500	1.513	1.374	1.252	1.167	1.097	1.077
0.3600	1.033	1.159	1.308	1.838	1.771	1.789	0.3600	1.069	1.427	1.329	1.263	1.207	1.138
0.3700	1.428	1.335	1.223	1.113	1.050	1.013	0.3700	1.513	1.374	1.252	1.167	1.097	1.077
0.3800	1.033	1.159	1.308	1.838	1.771	1.789	0.3800	1.069	1.427	1.329	1.263	1.207	1.138
0.3900	1.428	1.335	1.223	1.113	1.050	1.013	0.3900	1.513	1.374	1.252	1.167	1.097	1.077
0.4000	1.033	1.159	1.308	1.838	1.771	1.789	0.4000	1.069	1.427	1.329	1.263	1.207	1.138
0.4100	1.428	1.335	1.223	1.113	1.050	1.013	0.4100	1.513	1.374	1.252	1.167	1.097	1.077
0.4200	1.033	1.159	1.308	1.838	1.771	1.789	0.4200	1.069	1.427	1.329	1.263	1.207	1.138
0.4300	1.428	1.335	1.223	1.113	1.050	1.013	0.4300	1.513	1.374	1.252	1.167	1.097	1.077
0.4400	1.033	1.159	1.308	1.838	1.771	1.789	0.4400	1.069	1.427	1.329	1.263	1.207	1.138
0.4500	1.428	1.335	1.223	1.113	1.050	1.013	0.4500	1.513	1.374	1.252	1.167	1.097	1.077
0.4600	1.033	1.159	1.308	1.838	1.771	1.789	0.4600	1.069	1.427	1.329	1.263	1.207	1.138
0.4700	1.428	1.335	1.223	1.113	1.050	1.013	0.4700	1.513	1.374	1.252	1.167	1.097	1.077
0.4800	1.033	1.159	1.308	1.838	1.771	1.789	0.4800	1.069	1.427	1.329	1.263	1.207	1.138
0.4900	1.428	1.335	1.223	1.113	1.050	1.013	0.4900	1.513	1.374	1.252	1.167	1.097	1.077
0.5000	1.033	1.159	1.308	1.838	1.771	1.789	0.5000	1.069	1.427	1.329	1.263	1.207	1.138
0.5100	1.428	1.335	1.223	1.113	1.050	1.013	0.5100	1.513	1.374	1.252	1.167	1.097	1.077
0.5200	1.033	1.159	1.308	1.838	1.771	1.789	0.5200	1.069	1.427	1.329	1.263	1.207	1.138
0.5300	1.428	1.335	1.223	1.113	1.050	1.013	0.5300	1.513	1.374	1.252	1.167	1.097	1.077
0.5400	1.033	1.159	1.308	1.838	1.771	1.789	0.5400	1.069	1.427	1.329	1.263	1.207	1.138
0.5500	1.428	1.335	1.223	1.113	1.050	1.013	0.5500	1.513	1.374	1.252	1.167	1.097	1.077
0.5600	1.033	1.159	1.308	1.838	1.771	1.789	0.5600	1.069	1.427	1.329	1.263	1.207	1.138
0.5700	1.428	1.335	1.223	1.113	1.050	1.013	0.5700	1.513	1.374	1.252	1.167	1.097	1.077
0.5800	1.033	1.159	1.308	1.838	1.771	1.789	0.5800	1.069	1.427	1.329	1.263	1.207	1.138
0.5900	1.428	1.335	1.223	1.113	1.050	1.013	0.5900	1.513	1.374	1.252	1.167	1.097	1.077
0.6000	1.033	1.159	1.308	1.838	1.771	1.789	0.6000	1.069	1.427	1.329	1.263	1.207	1.138
0.6100	1.428	1.335	1.223	1.113	1.050	1.013	0.6100	1.513	1.374	1.252	1.167	1.097	1.077
0.6200	1.033	1.159	1.308	1.838	1.771	1.789	0.6200	1.069	1.427	1.329	1.263	1.207	1.138
0.6300	1.428	1.335	1.223	1.113	1.050	1.013	0.6300	1.513	1.374	1.252	1.167	1.097	1.077
0.6400	1.033	1.159	1.308	1.838	1.771	1.789	0.6400	1.069	1.427	1.329	1.263	1.207	1.138
0.6500	1.428	1.335	1.223	1.113	1.050	1.013	0.6500	1.513	1.374	1.252	1.167	1.097	1.077
0.6600	1.033	1.159	1.308	1.838	1.771	1.789	0.6600	1.069	1.427	1.329	1.263	1.207	1.138
0.6700	1.428	1.335	1.223	1.113	1.050	1.013	0.6700	1.513	1.374	1.252	1.167	1.097	1.077
0.6800	1.033	1.159	1.308	1.838	1.771	1.789	0.6800	1.069	1.427	1.329	1.263	1.207	1.138
0.6900	1.428	1.335	1.223	1.113	1.050	1.013	0.6900	1.513	1.374	1.252	1.167	1.097	1.077
0.7000	1.033	1.159	1.308	1.838	1.771	1.789	0.7000	1.069	1.427	1.329	1.263	1.207	1.138
0.7100	1.428	1.335	1.223	1.113	1.050	1.013	0.7100	1.513	1.374	1.252	1.167	1.097	1.077
0.7200	1.033	1.159	1.308	1.838	1.771	1.789	0.7200	1.069	1.427	1.329	1.263	1.207	1.138
0.7300	1.428												

TABLE 34.- PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.

 $(\delta_f = 30^\circ; \delta_r = 20^\circ)$ 

M=0.60

$\frac{x}{c}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	1.462	1.050	1.884	2.095	2.194	1.843
.0100	1.375	.694	1.489	2.406	2.408	.482
.0200	1.063	1.694	2.490	2.059	1.913	1.816
.0400	1.335	.904	1.677	.585	.453	.403
.0600	1.101	1.473	1.816	2.004	1.898	1.812
.0800	1.118	1.008	.792	.646	.554	.485
.1000	1.125	1.414	1.721	1.962	1.893	1.809
.1500	1.115	1.096	1.905	.772	.682	.603
.2000	1.143	1.120	1.591	1.903	1.848	1.802
.2500	1.136	1.180	1.022	.905	.816	.741
.3000	1.130	1.242	1.484	1.856	1.829	1.790
.3500	1.137	1.374	1.116	.011	.936	.869
.4000	1.094	1.185	1.552	1.806	1.807	1.771
.4500	1.124	1.109	1.000	1.106	1.053	.998
.5000	1.015	1.096	1.257	1.770	1.754	1.718
.5500	1.450	1.161	1.873	1.195	1.164	1.135
.6000	1.946	1.989	1.082	1.734	1.776	1.732
.6500	1.485	1.402	1.324	.248	.242	.211
.7000	1.484	1.408	1.337	1.283	1.288	1.287
.7500	1.507	1.442	1.188	1.655	1.748	1.702
.8000	1.443	1.344	1.317	.874	1.250	1.311
.8500	.728	.796	1.053	1.613	1.730	1.684
.9000	1.570	1.510	1.447	1.397	1.433	1.433
.9500	1.521	1.521	1.447	1.397	1.433	1.433
1.0000	.654	.776	1.032	1.525	1.706	1.676
1.0500	1.613	1.561	1.497	1.457	1.508	1.539
1.1000	1.574	1.772	1.004	1.471	1.444	1.463
1.1500	1.783	1.756	1.704	1.674	1.806	1.891
1.2000	1.827	1.806	1.785	1.800	2.199	2.485
1.2500	1.774	1.762	1.769	1.382	1.648	2.654
1.3000	1.714	1.777	1.741	1.754	1.963	2.196
1.3500	.617	.734	.968	1.361	1.648	1.661
1.4000	1.699	1.666	1.622	1.551	1.664	1.767
1.4500	1.635	1.760	1.712	1.974	1.645	1.638
1.5000	1.645	1.624	1.572	1.543	1.637	1.691
1.5500	.610	.626	.994	1.281	1.639	1.658
1.6000	1.590	1.587	1.539	1.595	1.696	1.632
1.6500	.940	.944	1.026	1.333	1.659	1.658
1.7000	1.546	1.554	1.497	1.460	1.569	1.590
1.7500	1.523	1.512	1.497	1.198	1.635	1.644
1.8000	1.583	1.533	1.466	1.513	1.547	1.584
1.8500	1.385	1.381	1.217	1.202	1.620	1.649
1.9000	1.403	1.389	1.349	1.302	1.458	1.507
1.9500	1.459	1.412	1.335	1.522	1.547	1.593
2.0000	1.434	1.413	.000	1.168	1.604	1.638
2.0500	1.439	1.419	.000	1.301	1.514	1.554
2.1000	1.433	1.419	.000	1.301	1.514	1.554
2.1500	1.280	1.269	1.173	1.153	1.584	1.643
2.2000	1.502	1.485	1.326	1.261	1.507	1.582
2.2500	1.277	1.254	1.227	1.186	1.564	1.652

M=0.90

$\frac{x}{c}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	1.555	.926	1.268	1.653		
.0100	1.249	.773	1.592	1.653		
.0200	1.356	2.260	2.597	2.371		
.0400	1.340	.970	2.778	.639		
.0600	1.321	2.152	2.480	2.755		
.0800	1.357	1.080	2.885	2.375		
.1000	1.386	1.968	2.359	2.327		
.1500	1.389	1.686	2.265	.870		
.2000	1.404	1.582	2.265	2.243		
.2500	1.422	1.260	1.106	.987		
.3000	1.387	1.660	2.157	2.167		
.3500	1.486	1.350	1.206	1.097		
.4000	1.317	1.375	1.847	2.040		
.4500	1.550	1.409	1.288	1.192		
.5000	1.188	1.199	1.449	.960		
.5500	1.591	1.450	1.356	1.276		
.6000	1.062	1.066	1.333	1.902		
.6500	1.571	1.464	1.394	1.330		
.7000	1.472	1.413	1.361	1.324		
.7500	.794	.946	1.199	1.807		
.8000	1.607	1.552	1.497	1.454		
.8500	1.519	1.540	1.508	1.467		
.9000	1.753	1.740	1.469	1.789		
.9500	1.644	1.591	1.540	1.500		
1.0000	1.729	1.559	1.133	1.737		
1.0500	1.732	1.707	1.724	1.816		
1.1000	1.777	1.688	1.724	1.816		
1.1500	1.697	1.948	1.085	1.676		
1.2000	1.663	1.572	1.708	1.644		
1.2500	.674	.909	.947	1.647		
1.3000	1.747	1.656	1.691	1.841		
1.3500	1.766	1.699	.995	1.820		
1.4000	1.785	1.685	1.707	1.820		
1.4500	.867	.927	.930	1.595		
1.5000	1.798	1.608	1.733	1.928		
1.5500	1.798	1.614	1.733	1.928		
1.6000	1.779	1.694	1.742	1.906		
1.6500	1.153	1.177	1.203	1.561		
1.7000	1.833	1.795	1.726	1.860		
1.7500	1.413	1.445	1.458	1.867		
1.8000	1.717	1.644	1.634	1.783		
1.8500	1.015	1.675	1.707	1.865		
1.9000	2.109	2.119	2.142	1.866		
1.9500	1.761	1.676	1.721	1.906		
2.0000	2.144	2.048	1.666	1.622		
2.0500	1.740	1.711	1.687	1.931		
2.1000	1.775	1.731	1.741	1.737		

<sup>a</sup> Lower surface orifice is denoted by -.

M=0.80

$\frac{x}{c}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	1.510	.996	1.512	1.899	2.067	2.002
.0100	1.322	.724	.526	.461	.439	.453
.0200	1.233	2.930	2.539	2.403	1.960	1.941
.0400	1.366	1.711	2.589	2.589	2.589	2.589
.0600	1.245	1.665	2.687	2.094	1.962	1.955
.0800	1.355	1.040	.826	.705	.605	.532
.1000	1.386	1.580	2.501	2.089	1.968	1.945
.1500	1.368	1.131	.942	.824	.725	.645
.2000	1.294	1.475	1.702	2.025	1.936	1.917
.2500	1.399	1.215	1.054	.948	.856	.777
.3000	1.288	1.402	1.836	1.981	1.911	1.912
.3500	1.446	1.299	1.155	.061	.972	.904
.4000	1.224	1.302	1.411	1.927	1.886	1.889
.4500	1.266	1.242	1.315	1.654	1.683	1.683
.5000	1.127	1.180	1.193	1.897	1.866	1.858
.5500	1.530	1.414	1.315	1.865	1.891	1.841
.6000	1.022	1.062	1.139	1.859	1.849	1.841
.6500	1.642	1.442	1.259	1.827	1.829	1.819
.7000	.911	.957	1.116	1.827	1.829	1.829
.7500	1.545	1.449	1.376	1.842	1.801	1.809
.8000	1.851	1.593	1.087	1.684	1.761	1.722
.8500	1.501	1.417	1.348	1.329	1.298	1.272
.9000	1.767	1.876	1.058	1.780	1.810	1.814
.9500	1.631	1.481	1.481	1.554	1.421	1.397
1.0000	1.648	1.565	1.496	1.741	1.739	1.739
1.0500	.725	.858	1.041	1.740	1.787	1.814
1.1000	1.671	1.597	1.527	1.517	1.488	1.472
1.1500	1.761	1.649	1.026	1.684	1.761	1.807
1.2000	1.769	1.720	1.685	1.699	1.680	1.684
1.2500	1.684	1.610	1.653	1.882	2.082	2.186
1.3000	1.822	1.607	1.654	1.654	1.728	1.788
1.3500	1.604	1.585	1.617	1.677	2.123	2.219
1.4000	.683	.816	.995	1.650	1.725	1.788
1.4500	1.600	1.580	1.600	1.782	1.851	1.979
1.5000	1.624	1.598	1.601	1.796	1.912	1.970
1.5500	1.877	1.909	1.047	1.897	1.709	1.765
1.6000	1.679	1.630	1.630	1.630	1.630	1.630
1.6500	1.008	1.019	1.109	1.555	1.695	1.777
1.7000	1.680	1.650	1.643	1.619	2.007	2.026
1.7500	1.654	1.654	1.639	1.619	1.619	1.619
1.8000	1.485	1.506	1.399	1.504	1.678	1.771
1.8500	1.608	1.552	1.517	1.725	1.828	1.869
1.9000	1.013	1.008	1.040	1.540	1.710	1.941
1.9500	1.833	1.599	1.424	1.473	1.690	1.786
2.0000	1.674	1.621	1.604	1.666	1.933	1.912
2.0500	1.644	1.644	1.644	1.475	1.680	1.787
2.1000	1.612	1.582	1.570	1.475	1.680	1.787
2.1500	1.621	1.604	1.580	1.566	1.688	1.783

M=0.93

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	1.568	.906	1.197			
.0100	1.244	.797	1.625			
.0200	1.411	2.247	2.513			
.0400	1.349	.967	2.813			
.0600	1.398	2.131	2.378			
.0800	1.360	1.023	2.827			
.1000	1.466	1.987	2.255			
.1500	1.383	1.177	1.031			
.2000	1.486	1.730	2.168			
.2500	1.425	1.774	1.466			
.3000	1.483	1.757	2.108			
.3500	1.382	1.757	1.808			
.4000	1.553	1.433	1.336			
.4500	1.212	1.227	1.843			
.5000	1.593	1.476	1.398			
.5500	1.079	1.099	1.478			
.6000	1.616	1.468	1.454			
.6500	1.552	1.045	1.458			
.7000	1.562	1.460	1.418			
.7500	1.421	1.030	1.460			
.8000	1.491	1.414	1.372			
.8500	1.809	1.020	1.475			
.9000	1.635	1.557	1.511			
.9500	1.577	1.414	1.399			
1.0000	.774	1.026	1.470			
1.0500	1.663	1.588	1.548			
1.1000	1.654	1.044	1.585			
1.1500	1.725	1.701	1.661			
1.2000	1.857	1.775	2.026			
1.2500	1.729	1.523	1.666			
1.3000	1.643	1.651	1.006			
1.3500	.697	.972	1.093			
1.4000	1.832	1.742	1.534			
1.4500	.770	.927	1.373			
1.5000	1.837	1.742	1.699			
1.5500	1.879	1.534	1.671			
1.6000	1.841	1.741	1.931			
1.6500	1.010	1.009	1.002			
1.7000	1.839	1.750	1.885			
1.7500	1.137	1.657	1.192			
1.8000	1.830	1.855	1.666			
1.8500	1.409	1.425	1.442			
1.9000	1.776	1.695	1.036			
1.9500	1.811	1.730	1.577			
2.0000	2.174	2.075	2.164			
2.0500	1.829	1.728	1.894			
2.1000	2.118	2.022	2.084			
2.1500	1.819	1.728	1.923			
2.2000	1.862	1.811	1.903			



TABLE 35- PRESSURE COEFFICIENTS AT 0.46 SEMISPAN.

$$(\beta_f = -30^\circ; \delta_f = -20^\circ)$$

M = 0.60

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.502	.795	1.703	2.006	2.027	1.865
.0100	1.544	1.704	2.513	2.405	1.395	1.456
.0200	1.436	1.566	2.224	2.007	1.075	1.408
.0400	1.111	1.289	1.704	1.531	1.452	1.408
.0600	1.022	1.362	1.726	1.564	1.877	1.826
.0800	1.080	1.069	1.831	1.557	1.589	1.497
.1000	1.060	1.313	1.656	1.783	1.635	1.818
.1500	1.375	1.151	1.942	1.960	1.857	1.616
.2133	1.085	1.2338	1.508	1.783	1.624	1.806
.2533	1.397	1.229	1.061	1.902	1.824	1.762
.3033	1.977	1.180	1.384	1.917	1.831	1.600
.3533	1.449	1.310	1.164	1.928	1.955	1.892
.4167	1.027	1.096	1.238	1.817	1.773	1.786
.4567	1.495	1.379	1.255	1.779	1.752	1.759
.5067	1.927	1.986	1.128	1.775	1.759	1.759
.5567	1.537	1.440	1.340	1.827	1.137	1.152
.6067	1.840	1.486	1.038	1.724	1.173	1.749
.6500	1.569	1.486	1.394	1.792	1.274	1.260
.7000	1.739	1.748	1.967	1.646	1.719	1.728
.7500	1.577	1.511	1.422	1.324	1.339	1.339
.8000	1.694	1.584	1.931	1.711	1.711	1.711
.8500	1.574	1.505	1.422	1.625	1.377	1.376
.9000	1.606	1.681	1.923	1.562	1.700	1.712
.9500	1.697	1.623	1.448	1.438	1.473	1.488
1.0000	1.739	1.655	1.557	1.498	1.498	1.507
.0500	.551	.677	.892	1.468	1.651	1.687
.1000	1.744	1.700	1.621	1.520	1.510	1.529
.1500	1.945	1.932	1.874	1.800	1.816	1.811
.2000	2.030	2.011	1.950	1.839	1.861	1.855
.2500	1.971	2.025	1.964	1.839	1.833	1.839
.3000	1.911	2.088	1.909	1.828	1.837	1.838
.3500	1.850	1.970	1.899	1.828	1.837	1.838
.4000	1.789	1.909	1.827	1.828	1.837	1.838
.4500	1.728	1.848	1.746	1.828	1.837	1.838
.5000	1.667	1.787	1.644	1.828	1.837	1.838
.5500	1.606	1.727	1.501	1.828	1.837	1.838
.6000	1.545	1.666	1.358	1.828	1.837	1.838
.6500	1.484	1.605	1.215	1.828	1.837	1.838
.7000	1.423	1.544	1.072	1.828	1.837	1.838
.7500	1.362	1.483	.929	1.828	1.837	1.838
.8000	1.301	1.422	.786	1.828	1.837	1.838
.8500	1.240	1.361	.643	1.828	1.837	1.838
.9000	1.179	1.300	.500	1.828	1.837	1.838
.9500	1.118	1.239	.357	1.828	1.837	1.838
1.0000	1.057	1.178	.214	1.828	1.837	1.838

M = 0.80

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.509	.905	1.420	1.829	2.151	
.0100	1.408	1.776	2.544	2.457	1.440	
.0200	1.318	1.911	2.248	2.090	1.953	
.0400	1.111	1.977	1.728	1.590	1.509	
.0600	1.173	1.548	2.743	2.088	1.959	
.0800	1.389	1.085	1.844	1.705	1.698	
.1000	1.207	1.493	2.583	2.092	1.960	
.1500	1.396	1.175	1.958	1.827	1.834	
.2133	1.218	1.387	1.505	2.003	1.939	
.2533	1.425	1.262	1.073	1.948	1.857	
.3033	1.190	1.314	1.430	1.957	1.927	
.3533	1.475	1.350	1.175	1.063	1.980	
.4167	1.135	1.205	1.107	1.906	1.897	
.4567	1.524	1.408	1.258	1.163	1.917	
.5067	1.011	1.069	1.173	1.877	1.882	
.5567	1.548	1.467	1.335	1.253	1.199	
.6067	1.833	1.490	1.377	1.306	1.270	
.6500	1.798	1.823	.973	1.799	1.846	
.7000	1.596	1.510	1.406	1.347	1.317	
.7500	1.783	1.782	1.748	1.792	1.817	
.8000	1.559	1.489	1.387	1.346	1.336	
.8500	1.651	1.766	.929	1.761	1.888	
.9000	1.448	1.610	1.505	1.448	1.424	
.9500	1.662	1.618	1.510	1.454	1.434	
1.0000	1.600	1.758	.915	1.707	1.806	
.0500	1.890	1.681	1.016	1.651	1.767	
.1000	1.832	1.849	1.728	1.690	1.691	
.1500	1.898	1.534	1.880	1.760	2.210	
.2000	1.853	1.774	2.006	1.611	1.755	
.2500	1.862	1.878	1.815	1.740	2.265	
.3000	1.853	1.783	1.604	1.635	1.763	
.3500	1.845	1.834	1.779	1.710	1.863	
.4000	1.838	1.823	1.680	1.590	1.761	
.4500	1.833	1.824	1.774	1.702	1.895	
.5000	1.833	1.824	1.884	1.557	1.759	
.5500	1.833	1.824	1.776	1.688	1.919	
.6000	1.833	1.824	1.683	1.507	1.744	
.6500	1.825	1.836	1.763	1.668	1.930	
.7000	1.825	1.836	1.763	1.668	1.930	
.7500	1.825	1.836	1.763	1.668	1.930	
.8000	1.825	1.836	1.763	1.668	1.930	
.8500	1.825	1.836	1.763	1.668	1.930	
.9000	1.825	1.836	1.763	1.668	1.930	
.9500	1.825	1.836	1.763	1.668	1.930	
1.0000	1.825	1.836	1.763	1.668	1.930	

M = 0.90

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.533	.884	1.212	1.578		
.0100	1.337	.793	2.603	2.512		
.0200	1.280	1.289	2.092	2.447		
.0400	1.398	.991	1.704	1.408		
.0600	1.280	2.104	2.437	2.427		
.0800	1.395	1.086	2.900	2.764		
.1000	1.312	1.606	2.298	2.538		
.1500	1.416	1.174	1.007	2.685		
.2133	1.330	1.623	2.240	2.664		
.2533	1.456	1.268	2.119	2.664		
.3033	1.297	1.430	2.079	2.180		
.3533	1.521	1.345	1.220	1.116		
.4167	1.205	1.267	1.493	2.000		
.4567	1.585	1.413	1.301	1.209		
.5067	1.070	1.103	1.331	1.935		
.5567	1.631	1.453	1.363	1.286		
.6067	1.947	1.950	1.218	1.875		
.6500	1.578	1.447	1.383	1.328		
.7000	1.818	1.864	1.176	1.804		
.7500	1.531	1.474	1.413	1.364		
.8000	1.632	1.847	1.183	1.814		
.8500	1.495	1.443	1.385	1.347		
.9000	1.694	1.836	1.180	1.779		
.9500	1.632	1.565	1.497	1.449		
1.0000	1.620	1.553	1.490	1.452		
.0500	1.650	1.840	1.158	1.716		
.1000	1.634	1.568	1.528	1.480		
.1500	1.647	1.878	1.100	1.673		
.2000	1.730	1.699	1.653	1.625		
.2500	1.973	1.929	1.943	2.183		
.3000	1.623	1.867	1.064	1.596		
.3500	1.939	1.895	1.914	2.177		
.4000	1.563	1.823	1.007	1.554		
.4500	1.893	1.842	1.859	1.888		
.5000	1.770	1.939	1.832	1.846		
.5500	1.882	1.824	1.832	1.846		
.6000	1.681	1.732	1.929	1.468		
.6500	1.878	1.813	1.828	1.422		
.7000	1.681	1.720	1.914	1.422		
.7500	1.881	1.815	1.831	1.793		
.8000	1.680	1.718	1.905	1.374		
.8500	1.884	1.823	1.834	1.779		
.9000	1.638	1.709	1.892	1.330		
.9500	1.926	1.841	1.863	1.743		
1.0000	1.951	1.825	1.831	1.731		
.0100	1.743	1.781	1.949	1.444		
.0300	1.822	1.804	1.814	1.705		
.0500	1.973	1.973	1.111	1.437		
.0700	1.837	1.798	1.782	1.770		
.0900	1.445	1.429	1.480	1.548		

M = 0.93

$\frac{X}{C}$ (a)	S					
	$\alpha = 0^\circ$	$\alpha = 4^\circ$	$\alpha = 8^\circ$	$\alpha = 12^\circ$	$\alpha = 16^\circ$	$\alpha = 20^\circ$
.0000	.5552	.869	1.174			
.0100	1.310	.814	2.630			
.0200	1.315	2.213	2.529			
.0400	1.389	1.007	2.417			
.0600	1.333	2.091	2.405			
.0800	1.391	1.108	2.925			
.1000	1.380	1.874	2.314			
.1500	1.422	1.193	2.033			
.2133	1.395	1.704	2.248			
.2533	1.454	1.287	2.145			
.3033	1.364	1.703	2.184			
.3533	1.517	1.375	1.248			
.4167	1.242	1.258	1.818			
.4567	1.588	1.443	1.333			
.5067	1.097	1.088	1.339			
.5567	1.638	1.478	1.390			
.6067	1.963	1.957	1.365			
.6500	1.655	1.442	1.400			
.7000	1.829	1.894	1.391			
.7500	1.578	1.463	1.433			
.8000	1.766	1.878	1.420			
.8500	1.530	1.432	1.401			
.9000	1.695	1.875	1.425			
.9500	1.697	1.568	1.511			
1.0000	1.687	1.560	1.504			
.0500	1.666	1.886	1.397			
.1000	1.679	1.569	1.521			
.1500	1.670	1.917	1.256			
.2000	1.729	1.684	1.652			
.2500	2.161	2.022	2.258			
.3000	2.648	2.905	1.213			
.3500	1.422	2.007	2.120			
.4000	1.576	1.854	2.033			
.4500	2.040	1.924	2.013			
.5000	1.597	1.797	1.559			
.5500	1.998	1.880	1.999			
.6000	1.650	1.755	.857			
.6500	1.988	1.874	2.014			
.7000	1.687	.733	2.225			
.7500	1.981	1.877	2.018			
.8000	1.690	1.727	2.022			
.8500	1.967	1.886	2.017			
.9000	1.993	1.741	2.005			
1.0000	2.006	1.876	2.034			
1.0133	1.975	1.876	2.012			
1.0233	1.745	1.789	1.977			
1.0333	1.967	1.859	1.988			
1.0433	1.971	1.973	1.959			
1.0533	1.929	1.870	1.952			
1.0633	1.933	1.822	1.917			

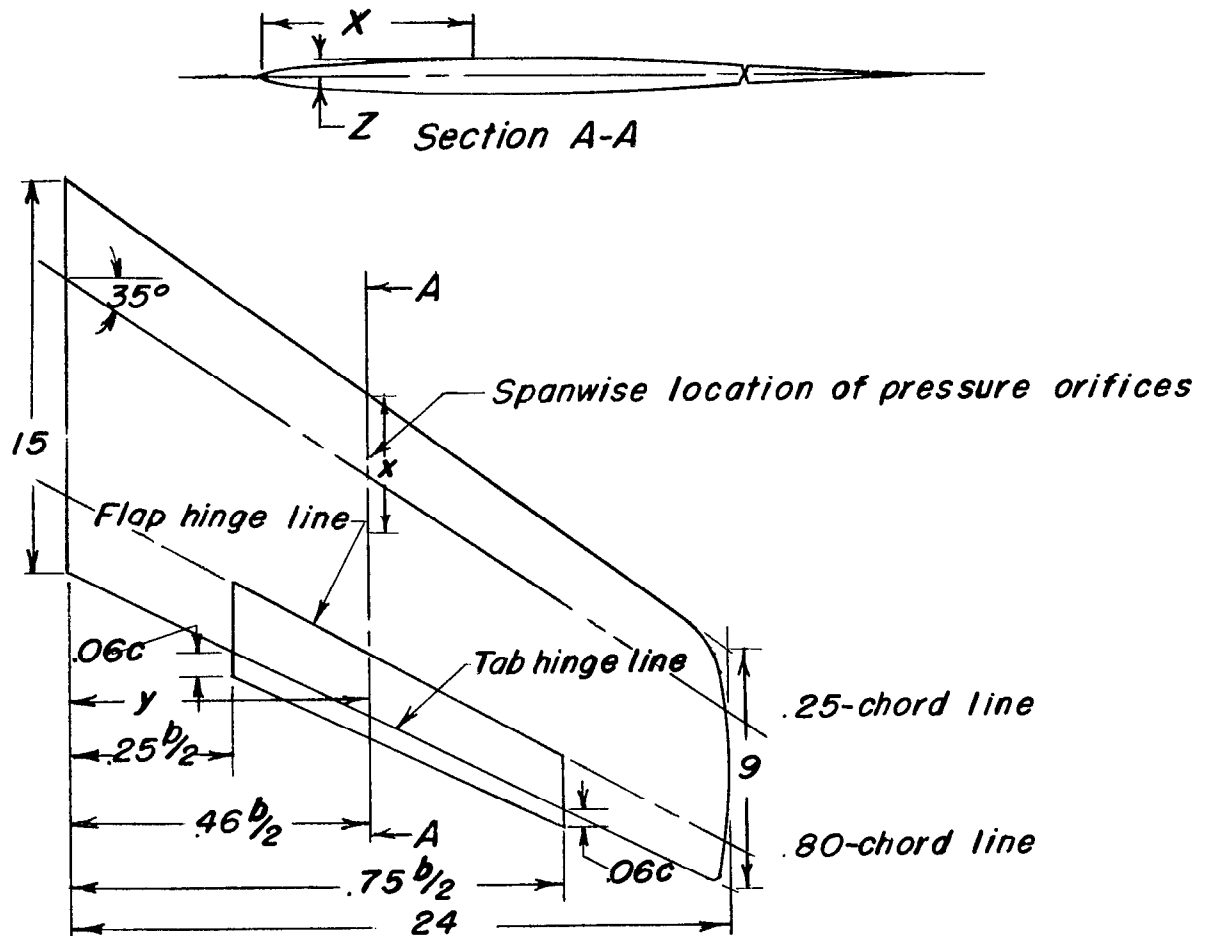


Figure 1.- Geometric characteristics of  $35^\circ$  sweptback wing equipped with flap-type control with attached tab. All dimensions are in inches unless otherwise noted.

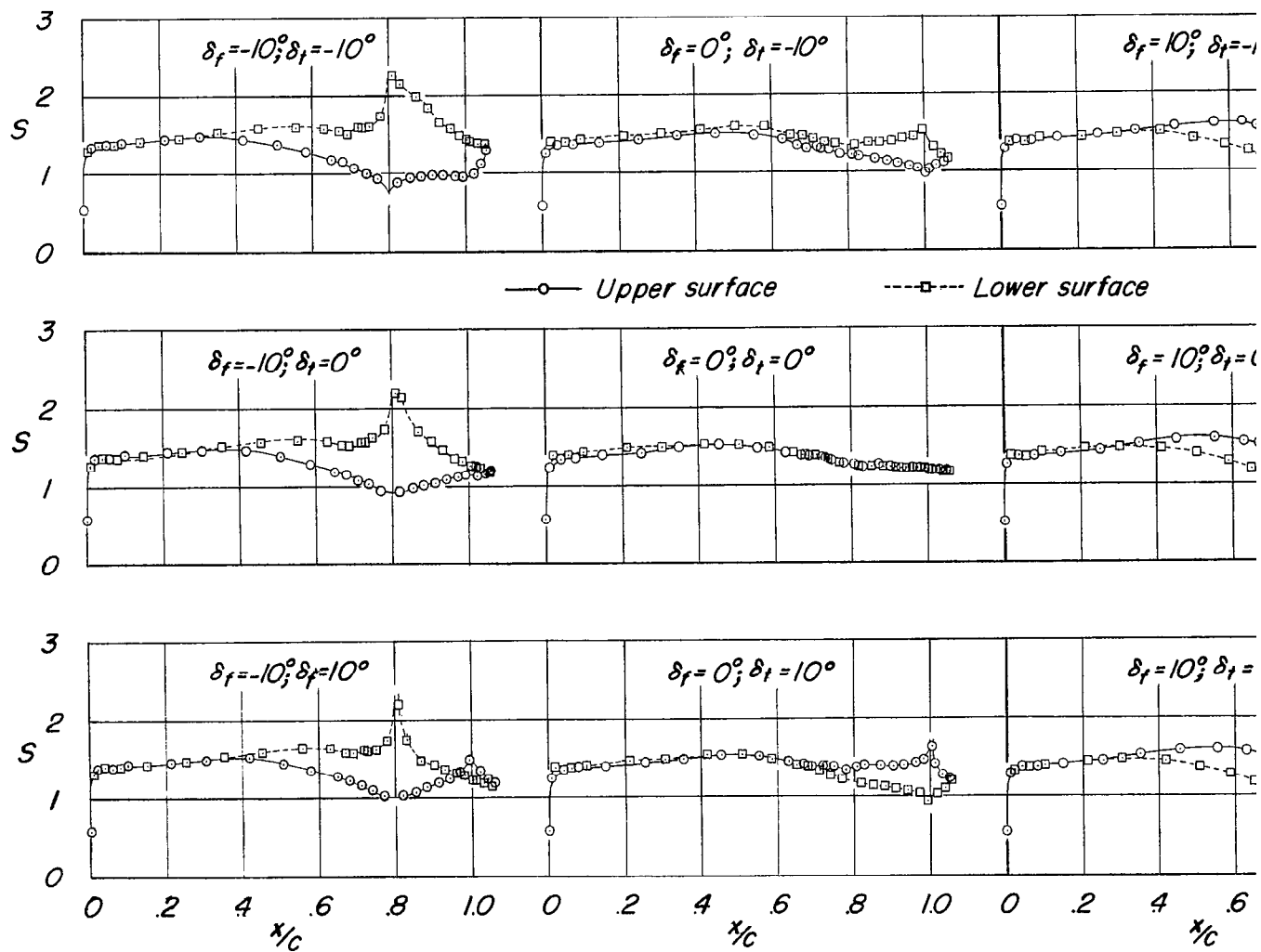


Figure 2.- Representative chordwise pressure distributions at 46-percent semispan station of 35° sweptback wing equipped with 20-percent-chord flap-type control and 6-percent-chord attached tab.  $\alpha = 0^\circ$ ;  $M = 0.9$

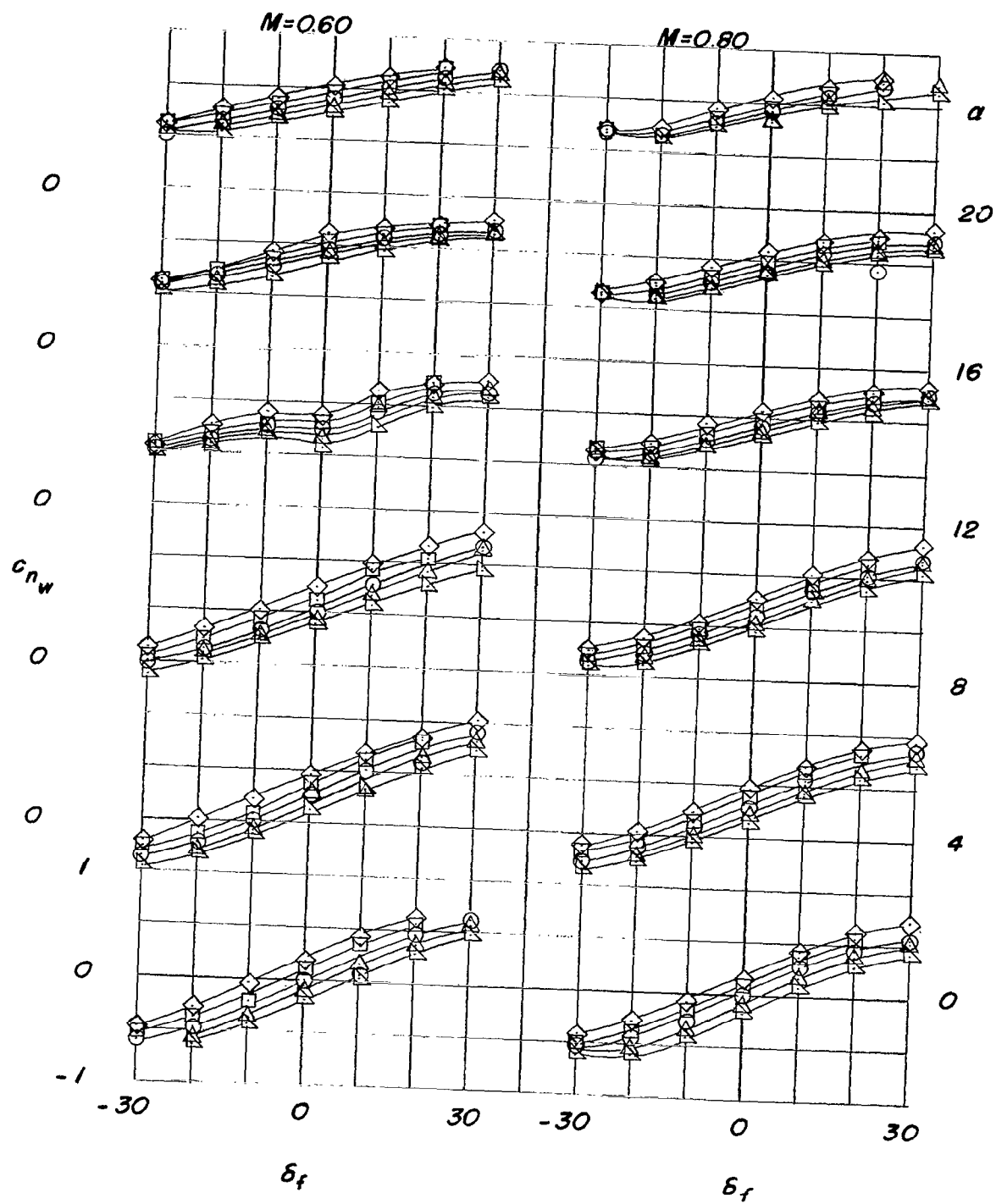


Figure 3.- Variation of section normal-force coefficient of wing with flap deflection for various tab deflections and angles of attack.

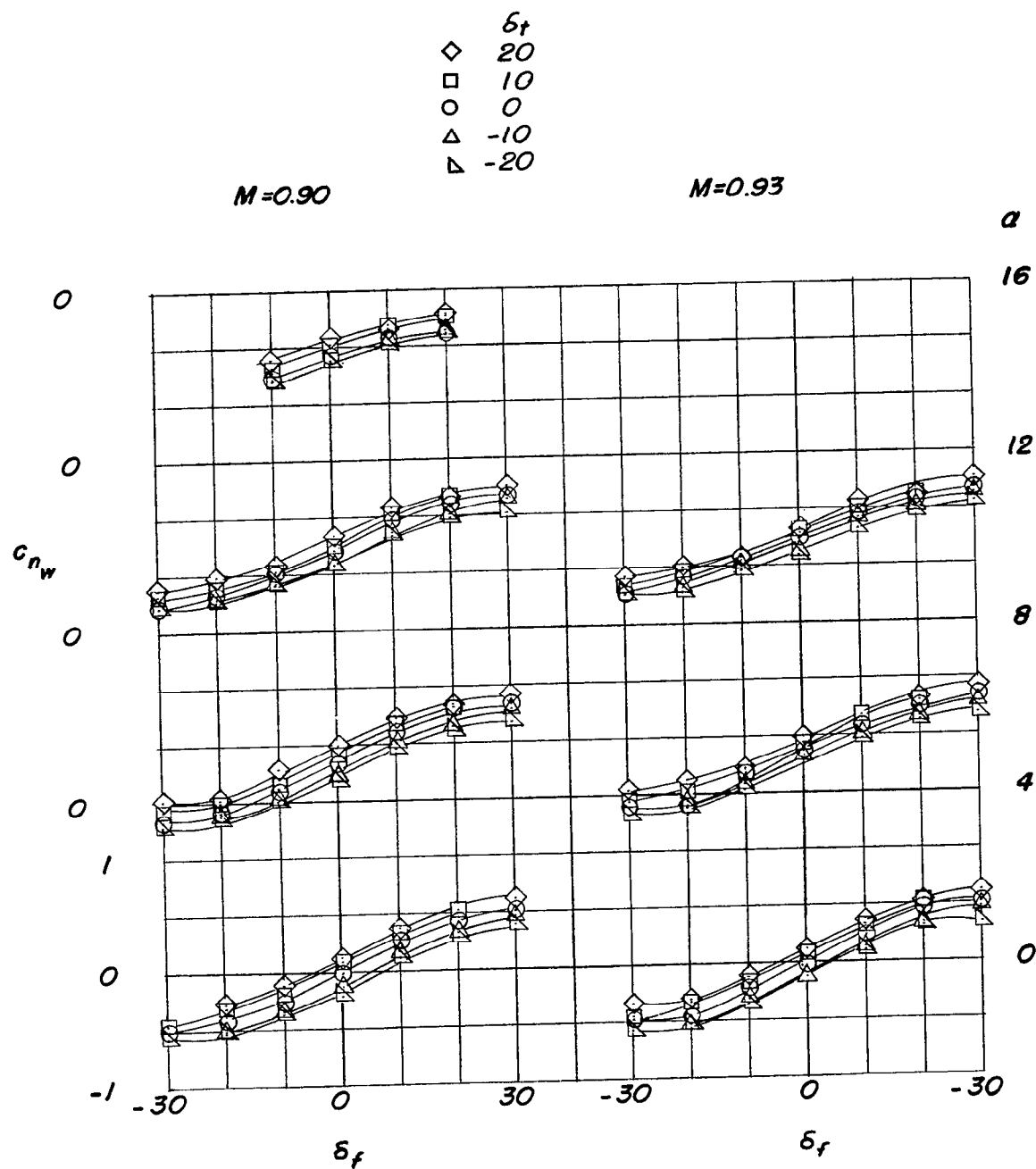


Figure 3.- Concluded.

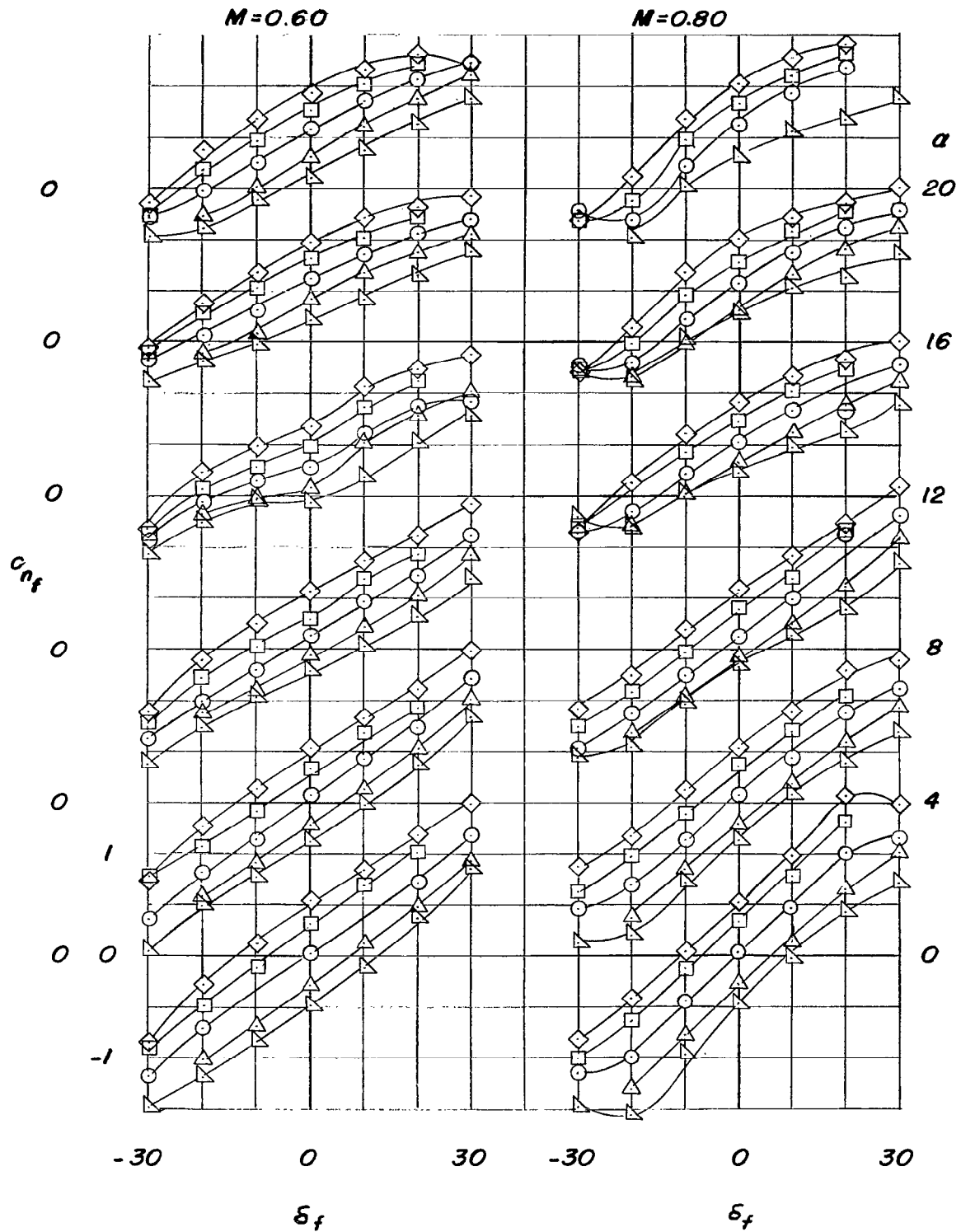


Figure 4.- Variation of section normal-force coefficient of flap with flap deflection for various tab deflections and angles of attack.

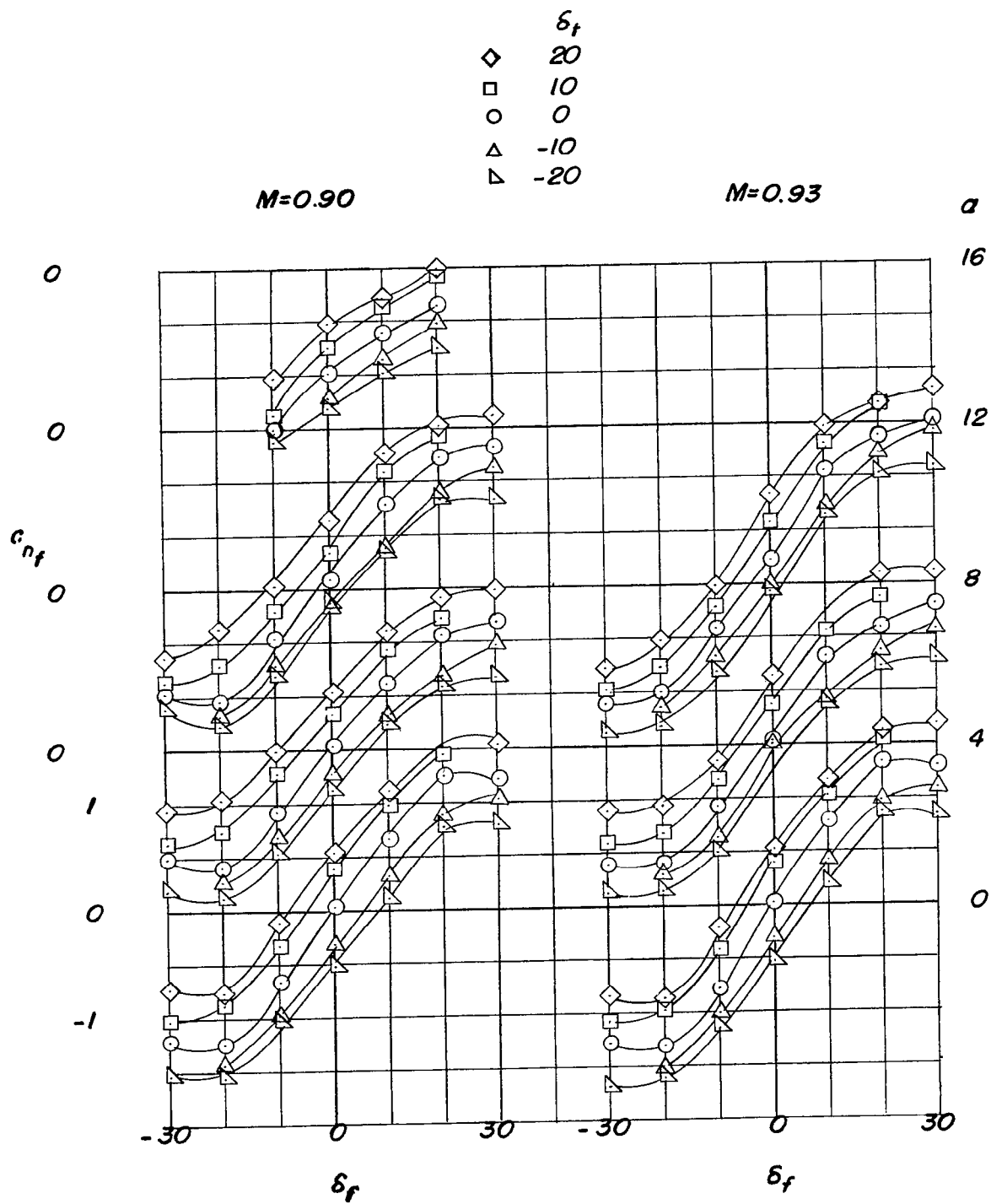


Figure 4.- Concluded.

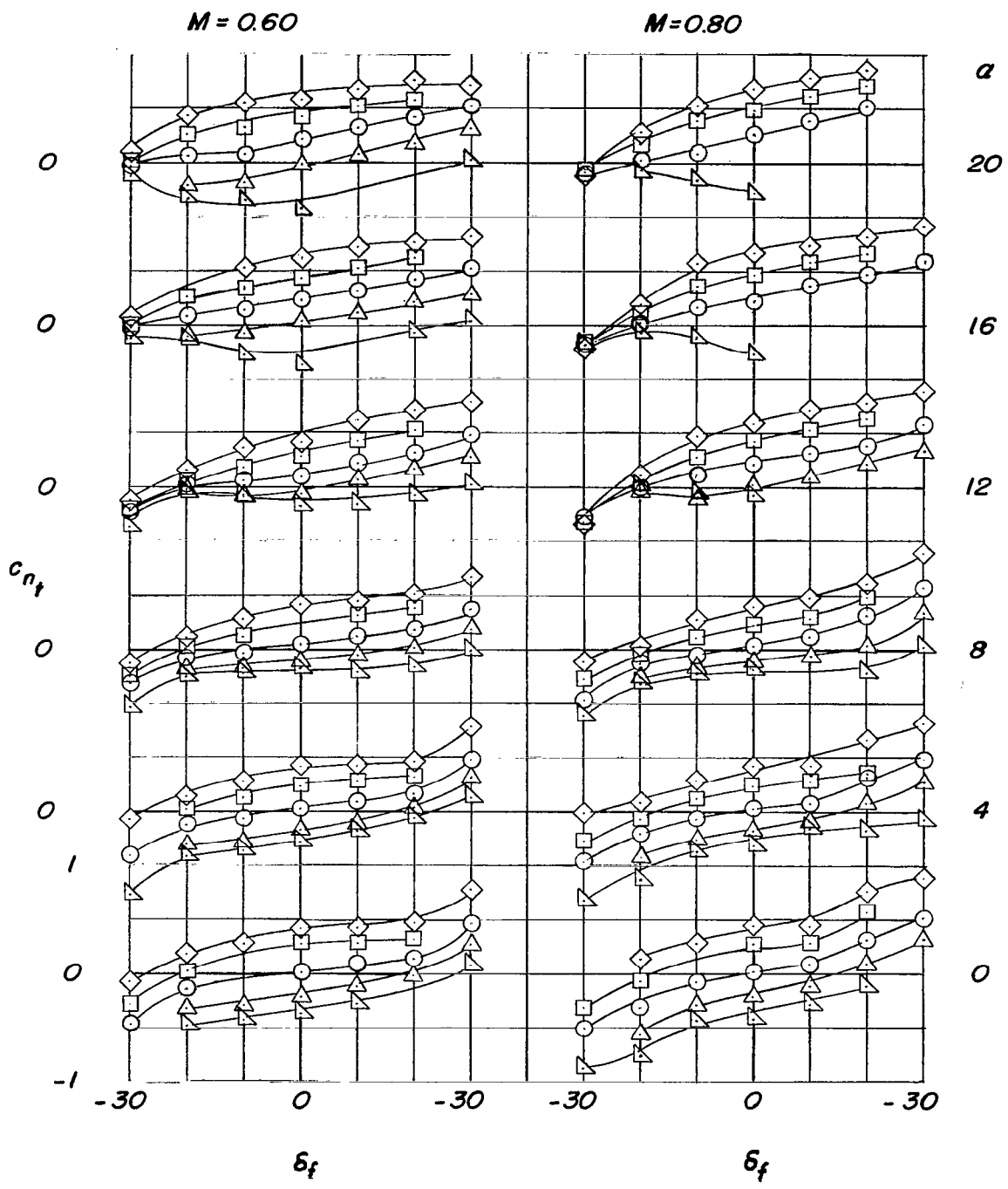


Figure 5.- Variation of section normal force of tab with flap deflection for various tab deflections and angles of attack.



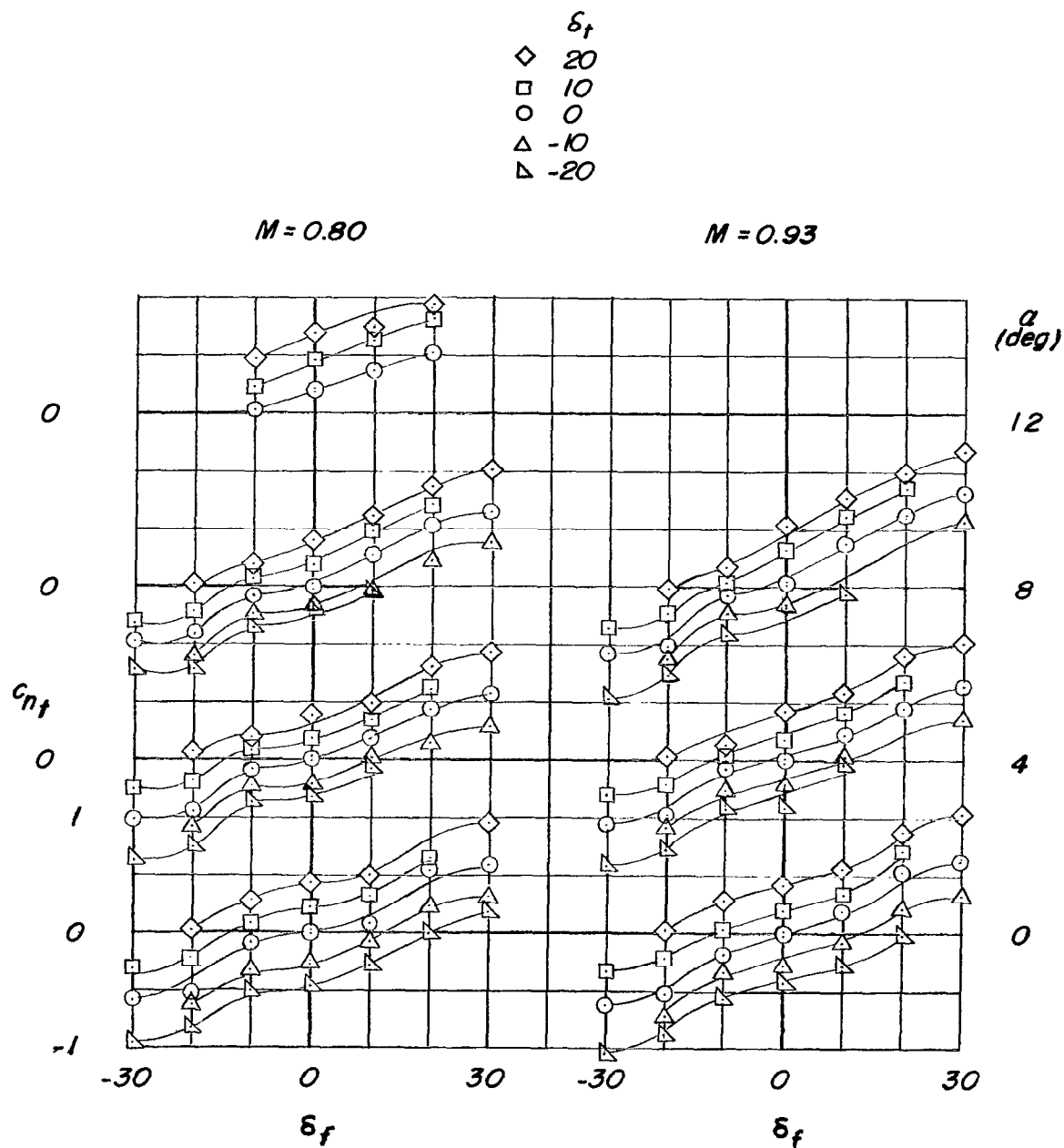


Figure 5.- Concluded.

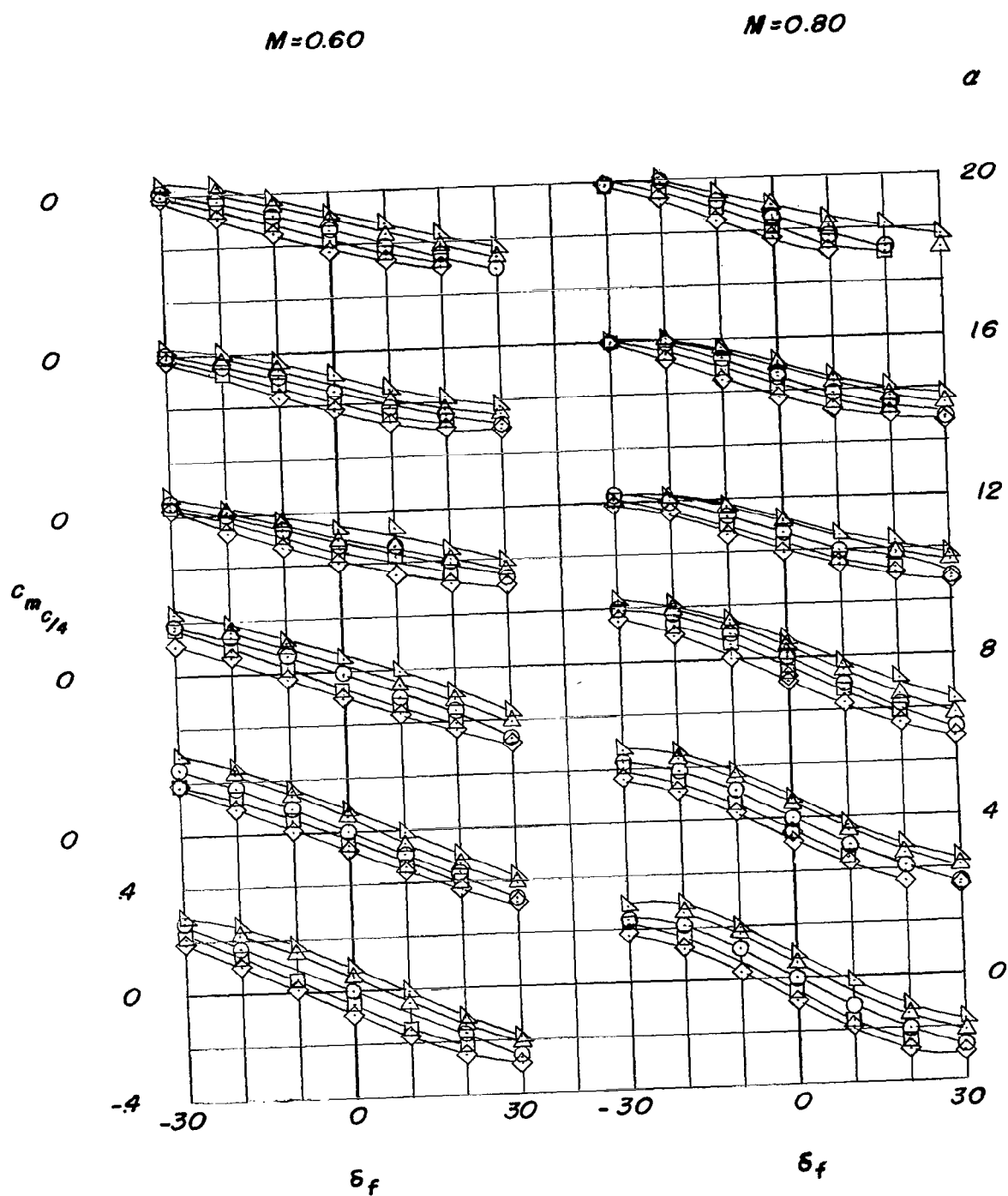


Figure 6.- Variation of section pitching-moment coefficient about wing quarter chord with flap deflection for various tab deflections and angles of attack.

$\delta_f$   
 $\diamond$  20  
 $\square$  10  
 $\circ$  0  
 $\triangle$  -10  
 $\nabla$  -20

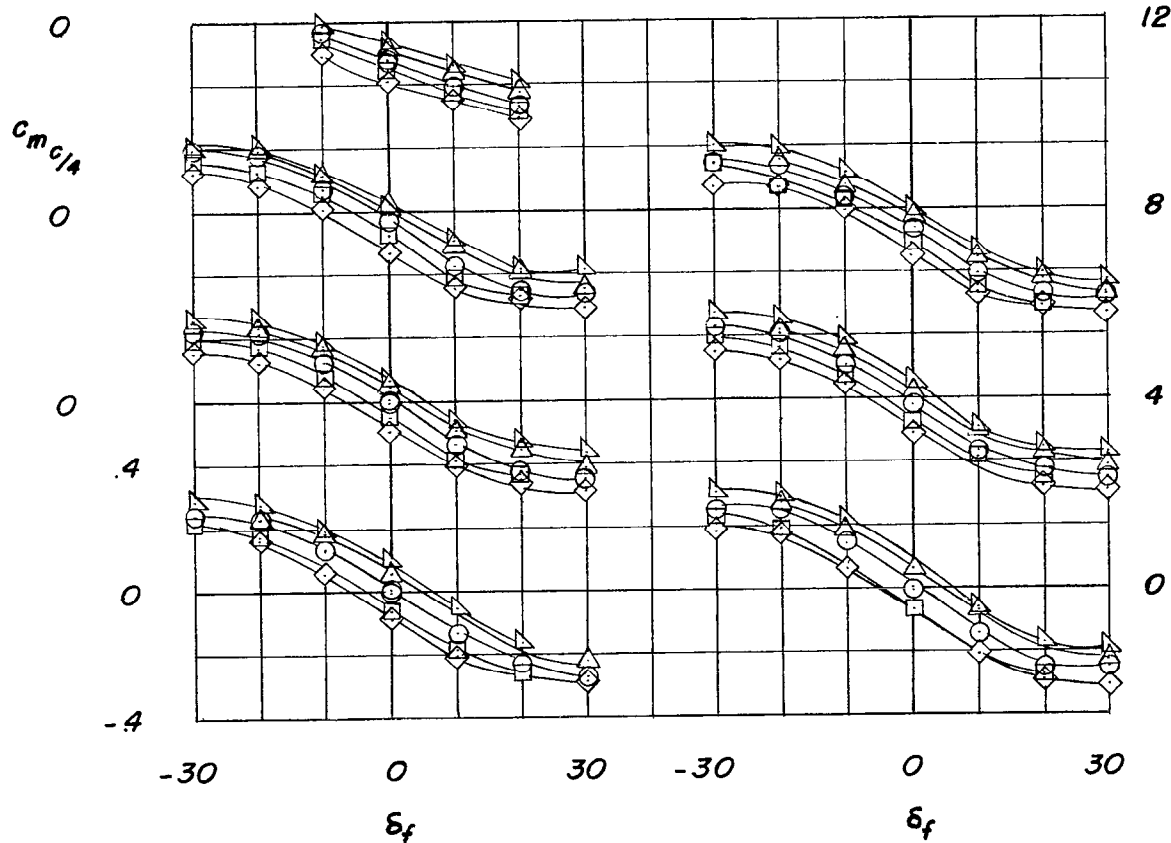
 $M=0.90$  $M=0.93$  $\alpha$ 

Figure 6.- Concluded.

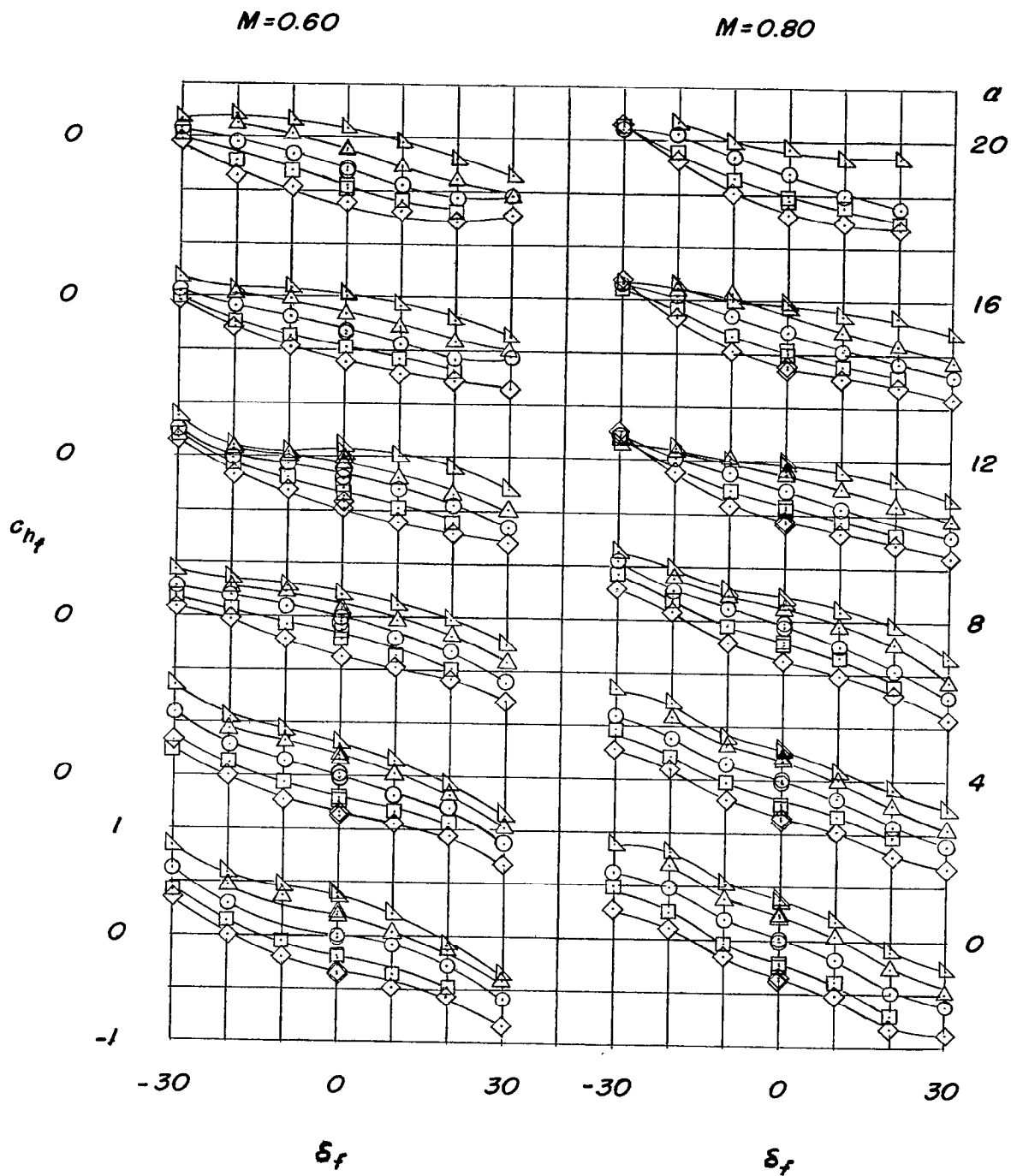


Figure 7.- Variation of section hinge-moment coefficient of flap with flap deflection for various tab deflections and angles of attack.

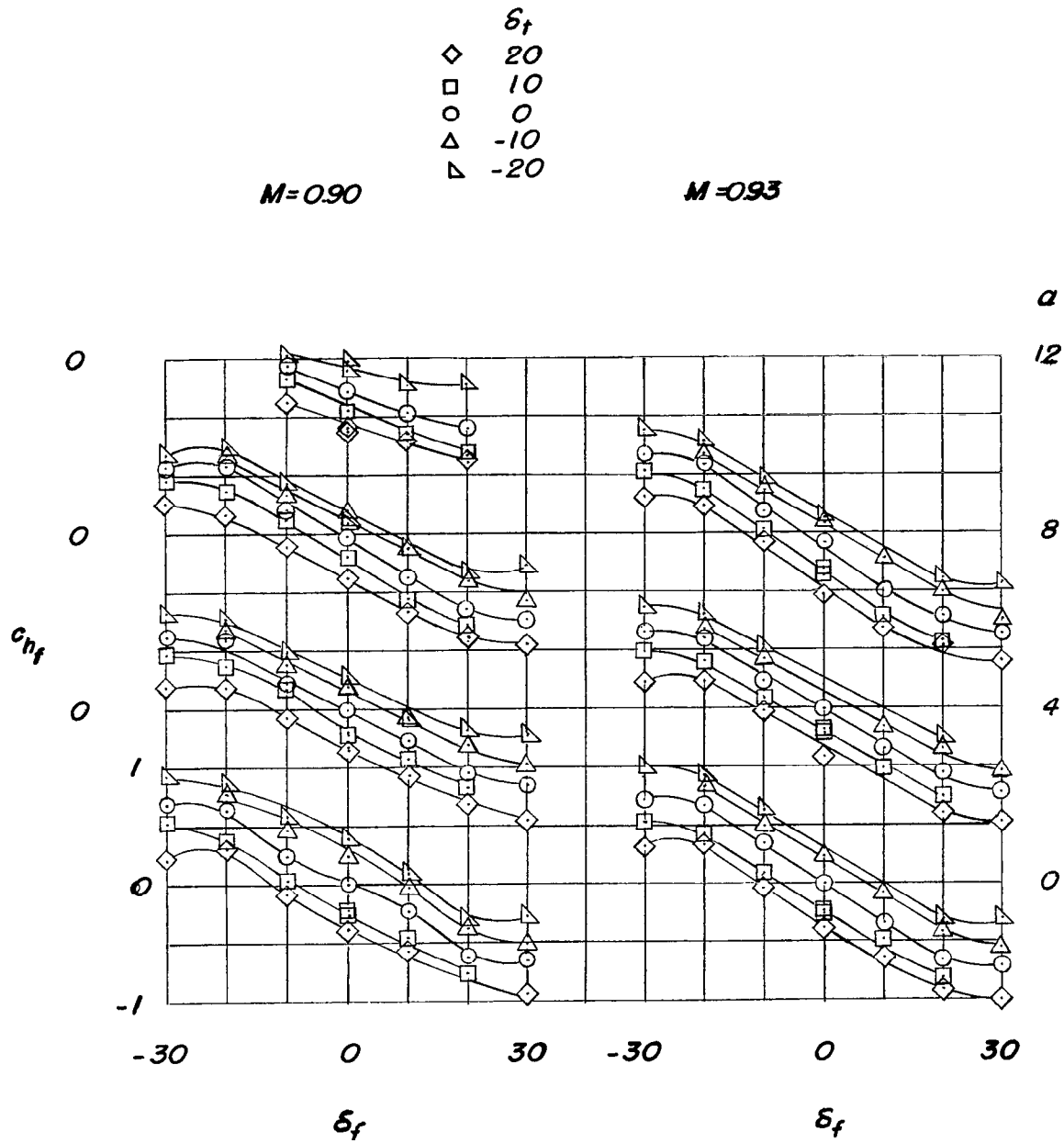


Figure 7.- Concluded.

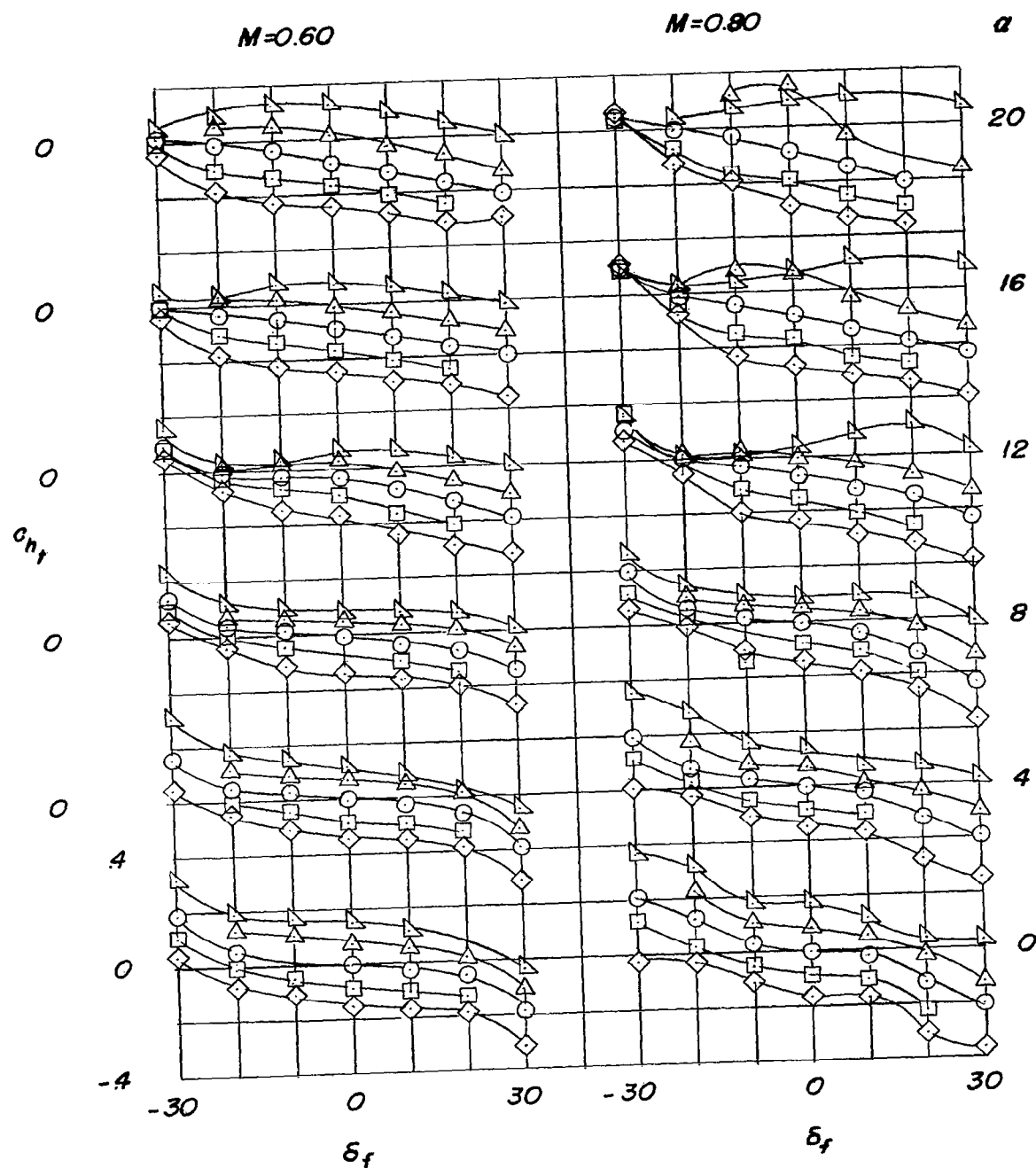


Figure 8.- Variation of section hinge-moment coefficient of tab with flap deflection for various tab deflections and angles of attack.

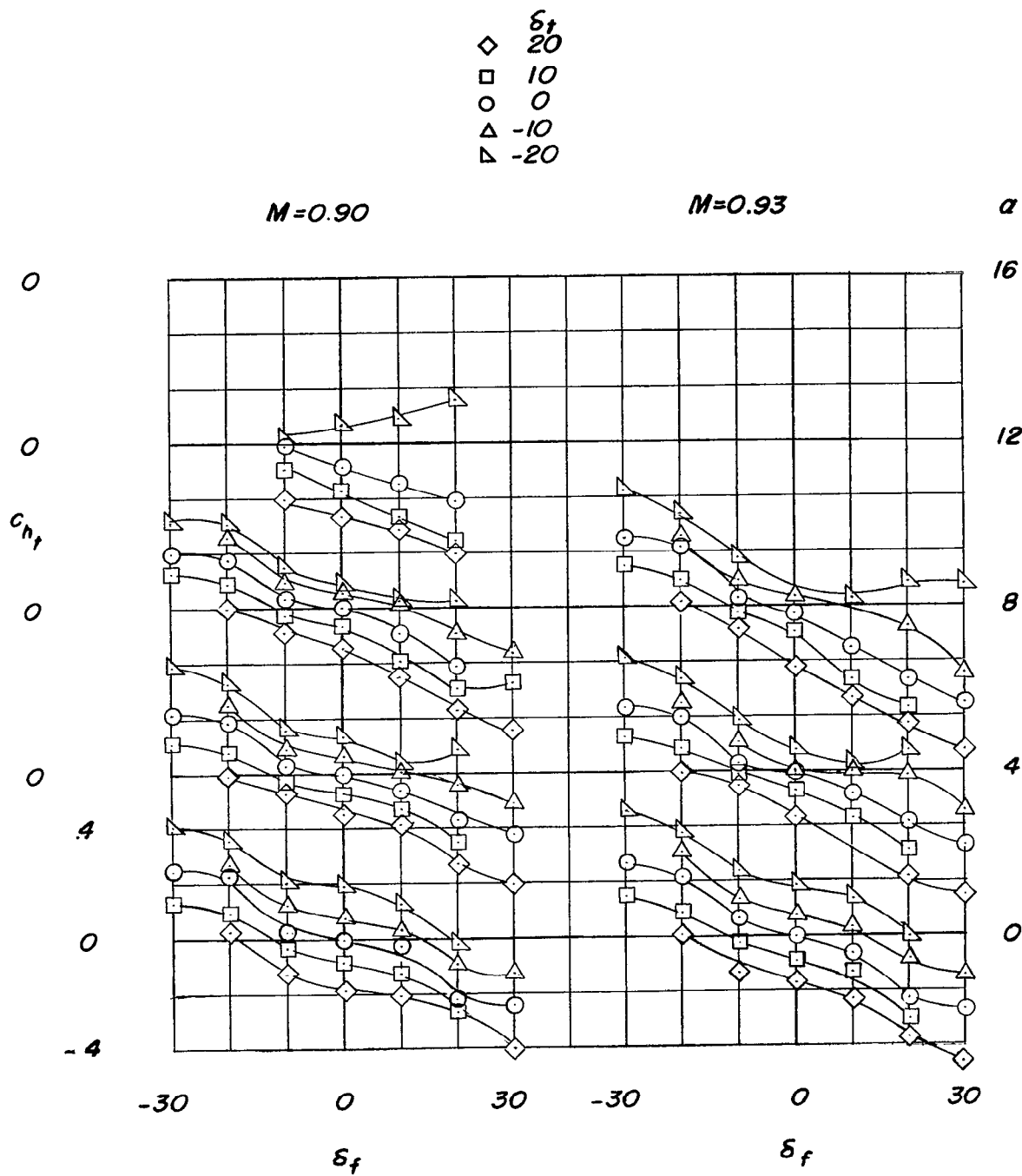


Figure 8.- Concluded.

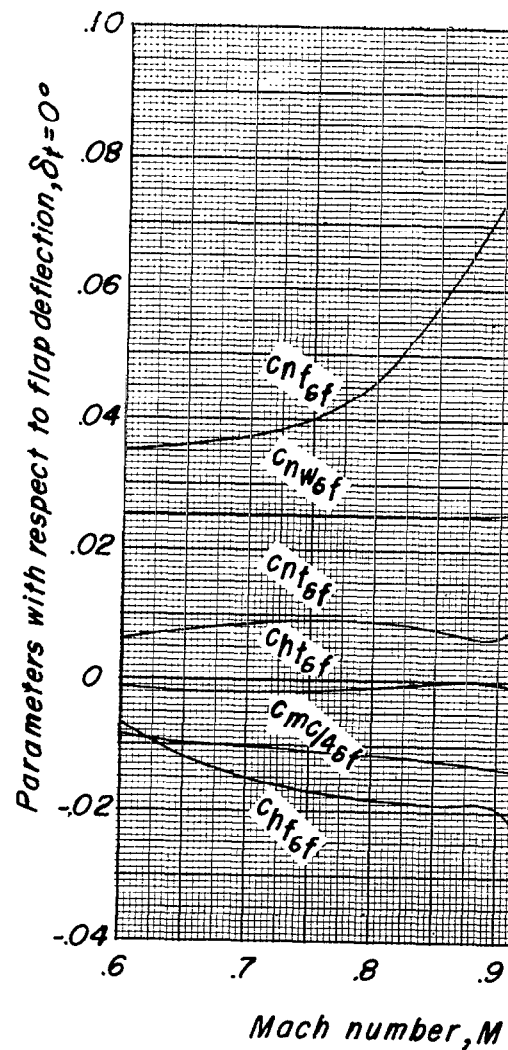
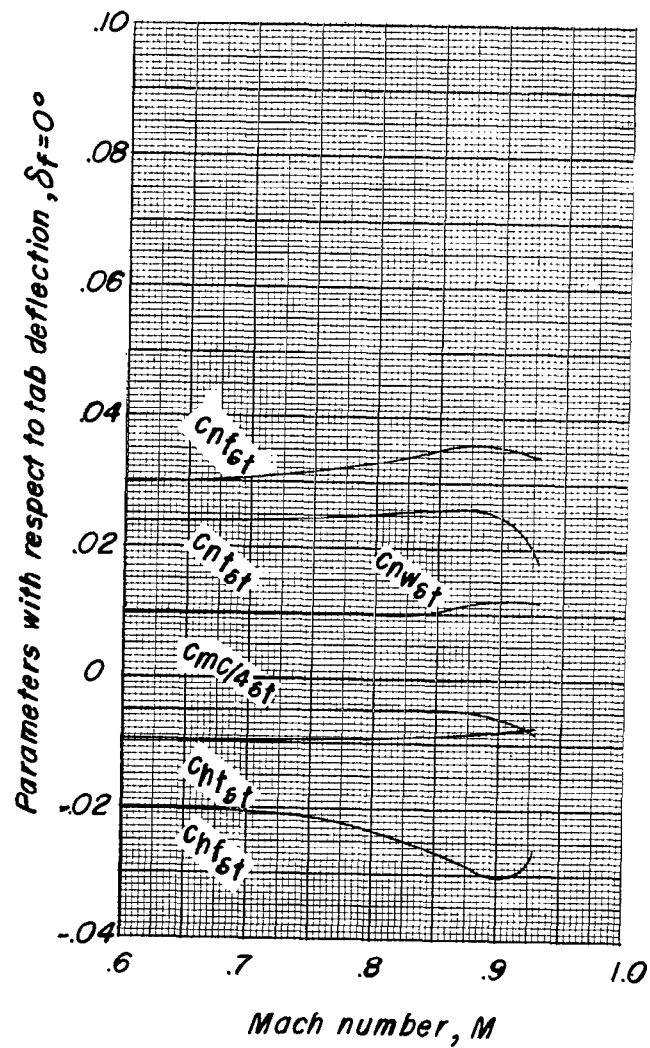


Figure 9.- Variation of section effectiveness and hinge-moment parameters with Mach number.



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